

FIG. 1

206010-22500660

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206010" 22500660

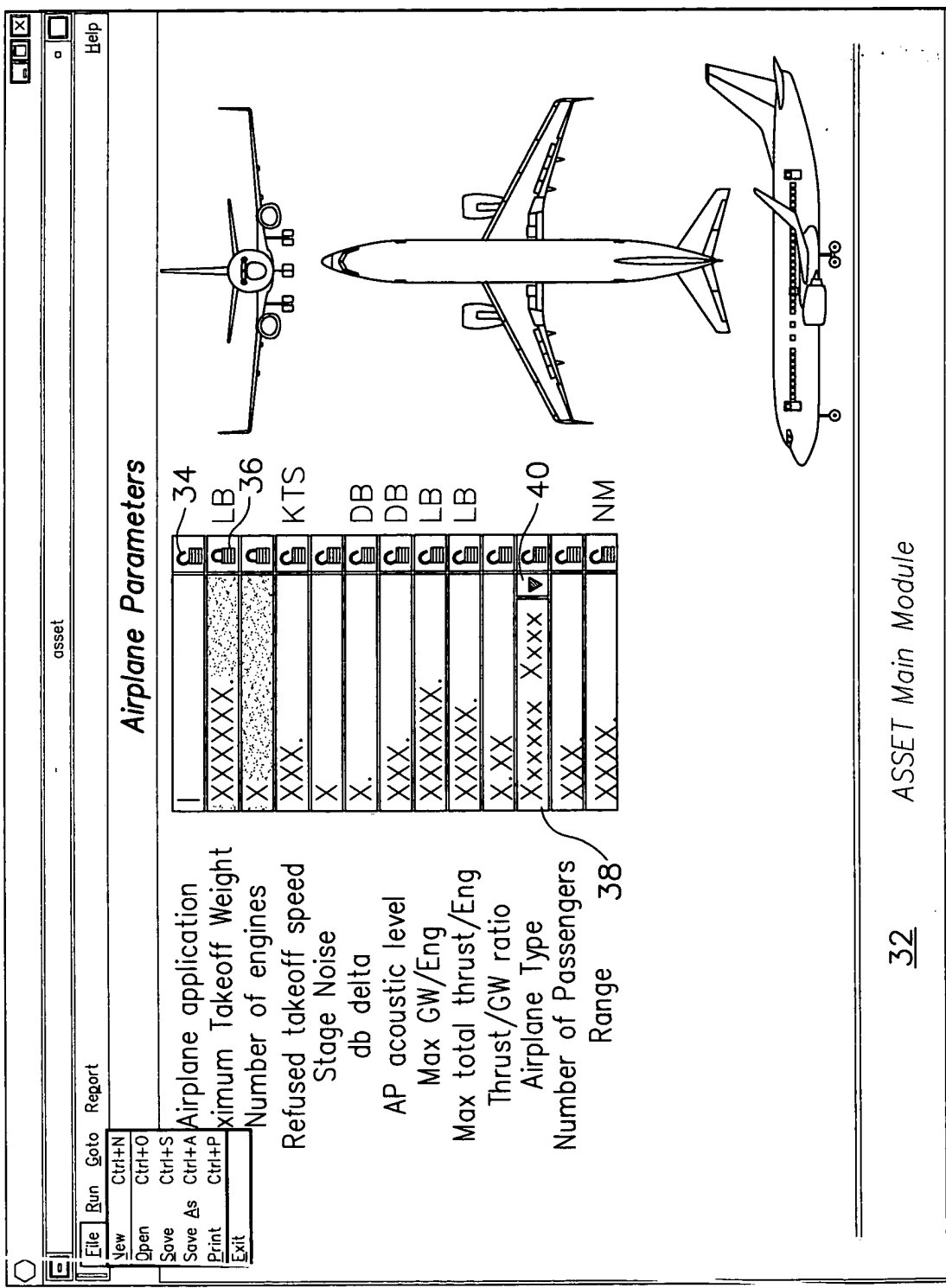


FIG. 2

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206010-22500660

asset
Help

File Run Goto Report

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Calculate Optimize

Airplane Parameters

Airplane application	I	XXXXXX.	LB
Maximum Takeoff Weight			
Number of engines			
Refused takeoff speed			KTS
Stage Noise			
db delta			DB
AP acoustic level			DB
Max GW/Eng			LB
Max total thrust/Eng			LB
Thrust/GW ratio			
Airplane Type		XXXXXX XXXX	
Number of Passengers			
Range			NM

ASSET Main Module

FIG. 3



General:

206010-22500660

RAFTSMAN
3Y

FILED
TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND CLASSIFYING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS
INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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asset

Help

Configuration

Body CL to O/B Engine CL
Side-of-Body to I/B Engine CL
Side-of-Body to O/B Engine CL
Dist. along LE I/B Eng. to Side-of-Body
Dist. along LE O/B Eng. to Side-of-Body
Dist. from Fwd.E/E Bay to Front Spar BS
Dist from I/B Eng. to EE Bay
Dist from O/B Eng. to EE Bay
Length of Main EE Bay
H - Lower Lobe Height
W1 Cabin Width
W2 Cargo Floor Width
Main E/E Bay Volume
Strut location
Accessory location

X.XX	ZZ
XXX.XX	ZZ
X.XX	ZZ
XXX.XX	ZZ
X.XX	ZZ
X.XX	ZZ
XXX.XX	ZZ
X.XX	ZZ
XX.XX	ZZ
XX.XX	ZZ
XXX.XX	ZZ
XXX.XX	ZZ
XXX.XX	FT^3
XXX	
XXX	

ASSET EPGDS Method

FIG. 5B

206070" 22500660

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asset		Help	
AC Electrical Load Characterization			
Number of Fans		52	
Recirculation Fans			
Number of E/E Cooling Vent Fans			
Number of E/E Cooling Supply Fans			
Number of TRUs			
Number of ACMPs			
Number of Window/Windshield Heaters			
Number of Lavatories			
Number of Wide Body Pumps		Number of Narrow Body Pumps	
Number of Wide Body Boost Pumps		Number of Narrow Body Boost Pumps	
Number of Wide Body Override Pumps		Number of Narrow Body Override Pumps	
Number of Wide Body Jettison Pumps		Number of Narrow Body Jettison Pumps	

FIG. 6

206010" 22900660

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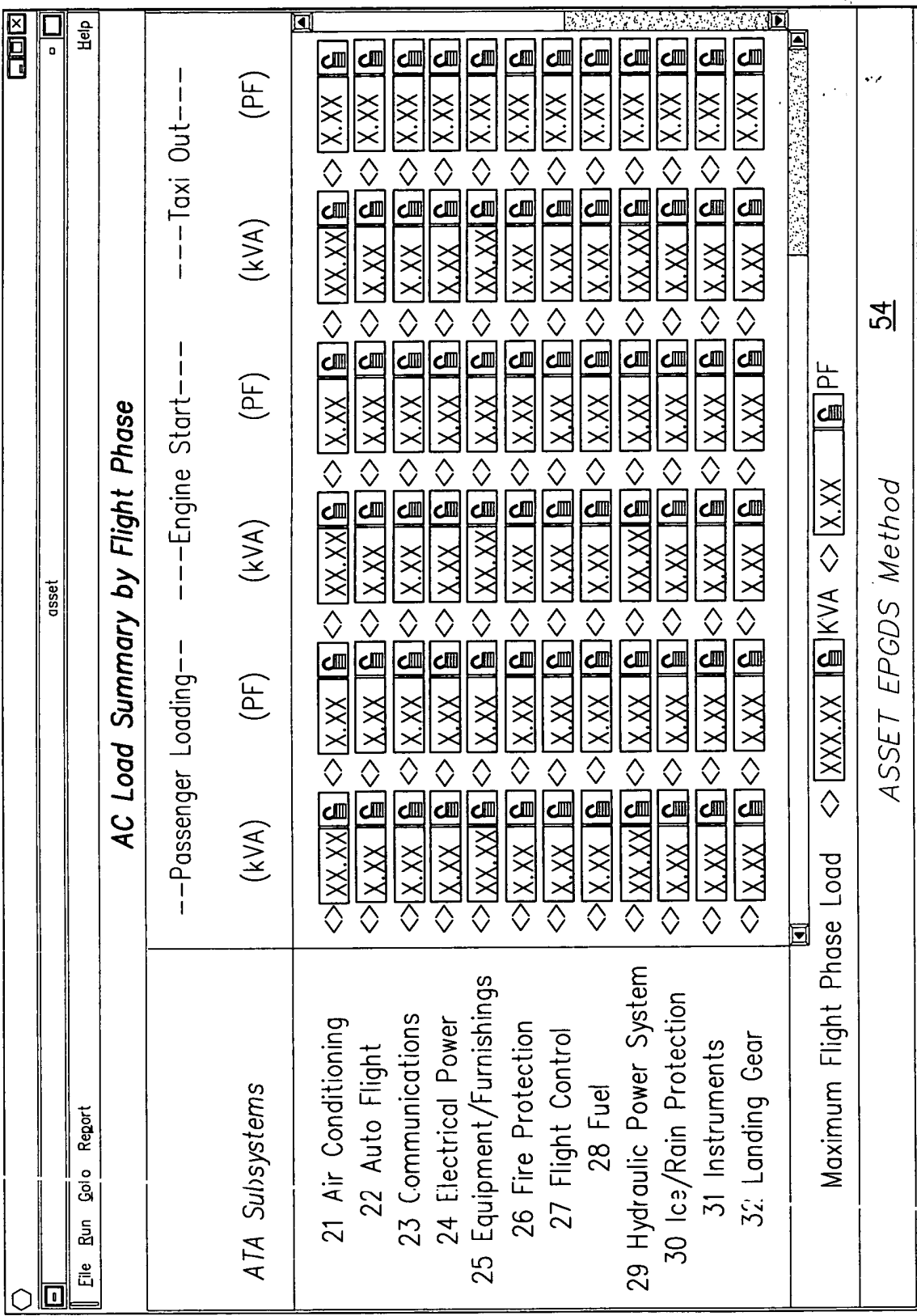


FIG. 7A

206070" 22500660

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AC Load Summary by Flight Phase									
ATA Subsystems	---Passenger Loading---			---Engine Start---			---Taxi Out---		
	(kVA)	(PF)	(kVA)	(PF)	(kVA)	(PF)	(kVA)	(PF)	
32 Landing Gear	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX
33 Lights	XX.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX
34 Navigation	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX
35 Oxygen	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX
36 Pneumatics	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX
38 Water/Waste	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX
46 Electronic Library	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX
48 Airplane Auxiliary Power	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX
52 Doors	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX
57 Folding Wing	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX
73 Engine Fuel Control	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX
74 Ignition	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX	1.00	X.XX
Maximum Flight Phase Load < XXX.XX KVA < X.XX PF									
ASSET EPGDS Method									

FIG. 7B

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BY

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FIG. 7C TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND CLASS SUBEVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS

INVENTOR: BOND, et al.

SN: 09/900,522; FILED 7/6/01

ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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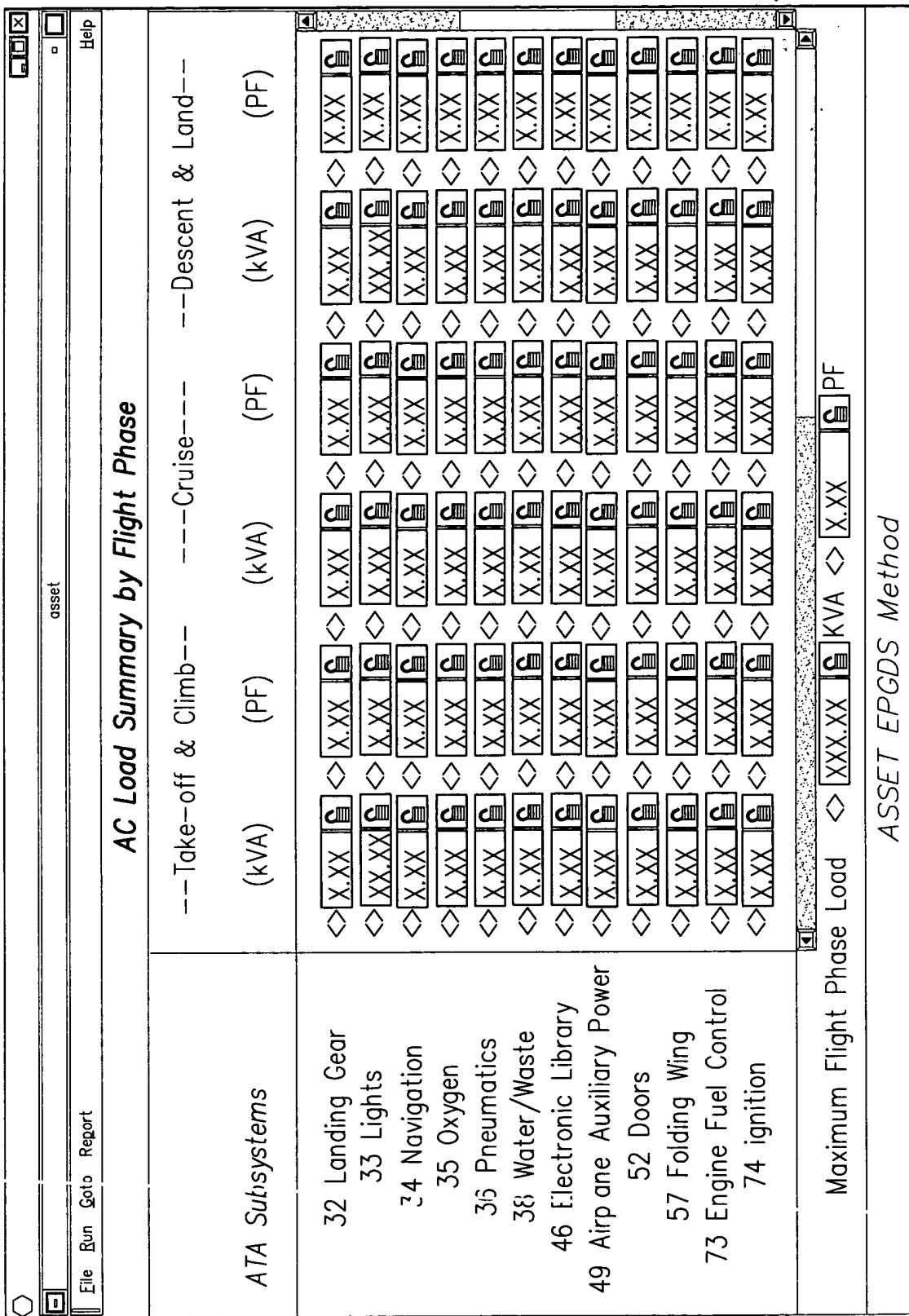


FIG. 7C

AC Load Summary by Flight Phase									
		---Take-off & Climb---		---Cruise---		---Descent & Land---			
ATA Subsystems		(kVA)	(PF)	(kVA)	(PF)	(kVA)	(PF)		
73 Engine Fuel Control		X.XX	0.95	X.XX	0.95	X.XX	0.95	X.XX	0.95
74 Ignition		X.XX	0.95	X.XX	0.95	X.XX	0.95	X.XX	0.95
75 Air		X.XX	0.95	X.XX	0.95	X.XX	0.95	X.XX	0.95
76 Engine Controls		X.XX	0.95	X.XX	0.95	X.XX	0.95	X.XX	0.95
77 Engine Indicating		X.XX	0.95	X.XX	0.95	X.XX	0.95	X.XX	0.95
78 Exhaust		X.XX	0.95	X.XX	0.95	X.XX	0.95	X.XX	0.95
79 Oil		X.XX	0.95	X.XX	0.95	X.XX	0.95	X.XX	0.95
80 Starting		X.XX	0.95	X.XX	0.95	X.XX	0.95	X.XX	0.95
Flight Phase Subtotals		X.XX	0.95	X.XX	0.95	X.XX	0.95	X.XX	0.95
Error/Growth Factor(15%)		X.XX	0.95	X.XX	0.95	X.XX	0.95	X.XX	0.95
Flight Phase Totals		X.XX	0.95	X.XX	0.95	X.XX	0.95	X.XX	0.95
Maximum Flight Phase Load		X.XX	0.95	X.XX	0.95	X.XX	0.95	X.XX	0.95

ASSET EPGDS Method

FIG. 7D

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Essential AC Loads				
	Quantity	Load per Unit	Totals	
Number of Upper Recirculating Fans	X.X	@<>	X.XX	Total Fan Load
Number of Lower Recirculating Fans	X.X	@<>	X.XX	XX.XX KVA
Number of E/E Cooling Supply Fans	X.X	@<>	X.XX	
Number of E/E Cooling Vent Fans	X.X	@<>	X.XX	
Number of Hydraulic ACMP Pumps	X.X	@<>	X.XX	Total Pump Load
Number of Fuel Boost Pumps	X.X	@<>	X.XX	XX.XX KVA
Number of Fuel Override Pumps	X.X	@<>	X.XX	
Baseline Flight & Electronic, Ice & Rain	X.XX	KVA	Passenger Load	X.XX KVA
Baseline Flight & Electronic, Electronics	X.XX	KVA	Baseline Flight & Electronics Total Load	XX.XX KVA
			Subtotal of Essential Loads	XX.XX KVA
			General Feeder Loss	X.XX KVA
			Total of Essential Loads	XX.XX KVA

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FIG. 8



206010"22500550

File

Run

Goto

Report

asset

Help

DC Electrical Load Characterization

Number of Main Landing Gear Wheels

X.X

Number of APU Generators

X.X

Number of Doors

X.X

Number of Tanks

X.X

ASSET EPGDS Method

FIG. 10

206010 22500660

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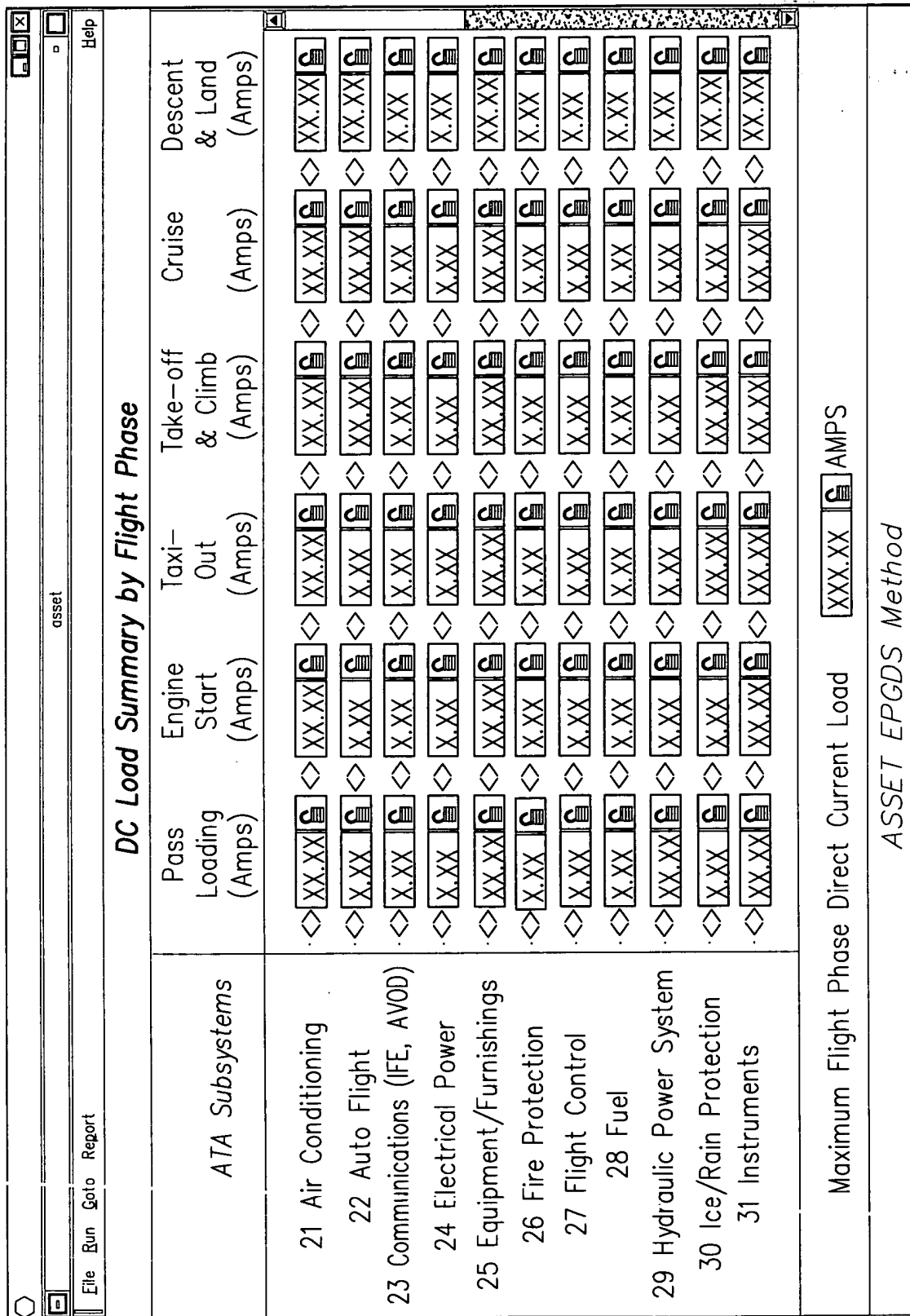


FIG. 11A

206010-22500660

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND
EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS

INVENTOR: BOND, et al.

SN: 09/900,522; FILED 7/6/01

ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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DC Load Summary by Flight Phase						
ATA Subsystems	Pass Loading (Amps)	Engine Start (Amps)	Taxi-Out (Amps)	Take-off & Climb (Amps)	Cruise (Amps)	Descent & Land (Amps)
31 Instruments	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
32 Landing Gear	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
33 Lights	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
34 Navigation	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
35 Oxygen	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
36 Pneumatics	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
38 Water/Waste	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
46 Electronic Library	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
49 Airplane Auxiliary Power	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
52 Doors	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
57 Folding Wing	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
Maximum Flight Phase Direct Current Load						XXX.XX AMPS
ASSET EPGDS Method						

FIG. 11B

BUROBUREAU

File

Run

Goto

Report

asset

Help

Standby DC Loads

Emergency/Standby Loads

XX.XX

AMPS

FIG. 12

		asset		Help	
IFE					
Technology Era Constant					
System Factor					
Airflow Constant					
Fan performance coefficient	X.XXX				
IFE Power Factor	X.XXX				CFM/KVA
IFE Utilization Factor	XXX.X				KVA/CFM
IFE Load	X.XXXXXXXX				
	X.XX				
	XXX.X				
	X.X				KVA

FIG. 13

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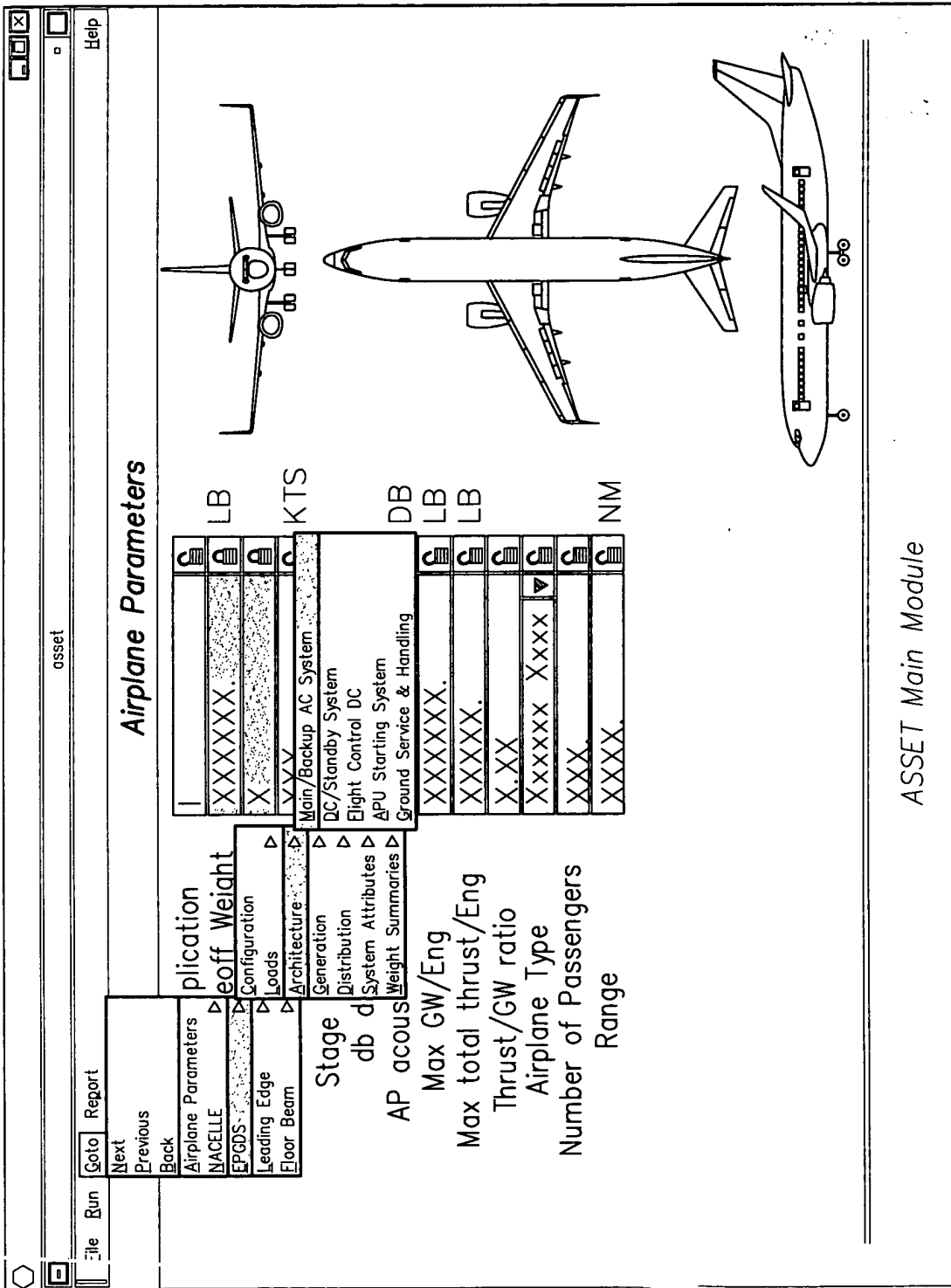


FIG. 14

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

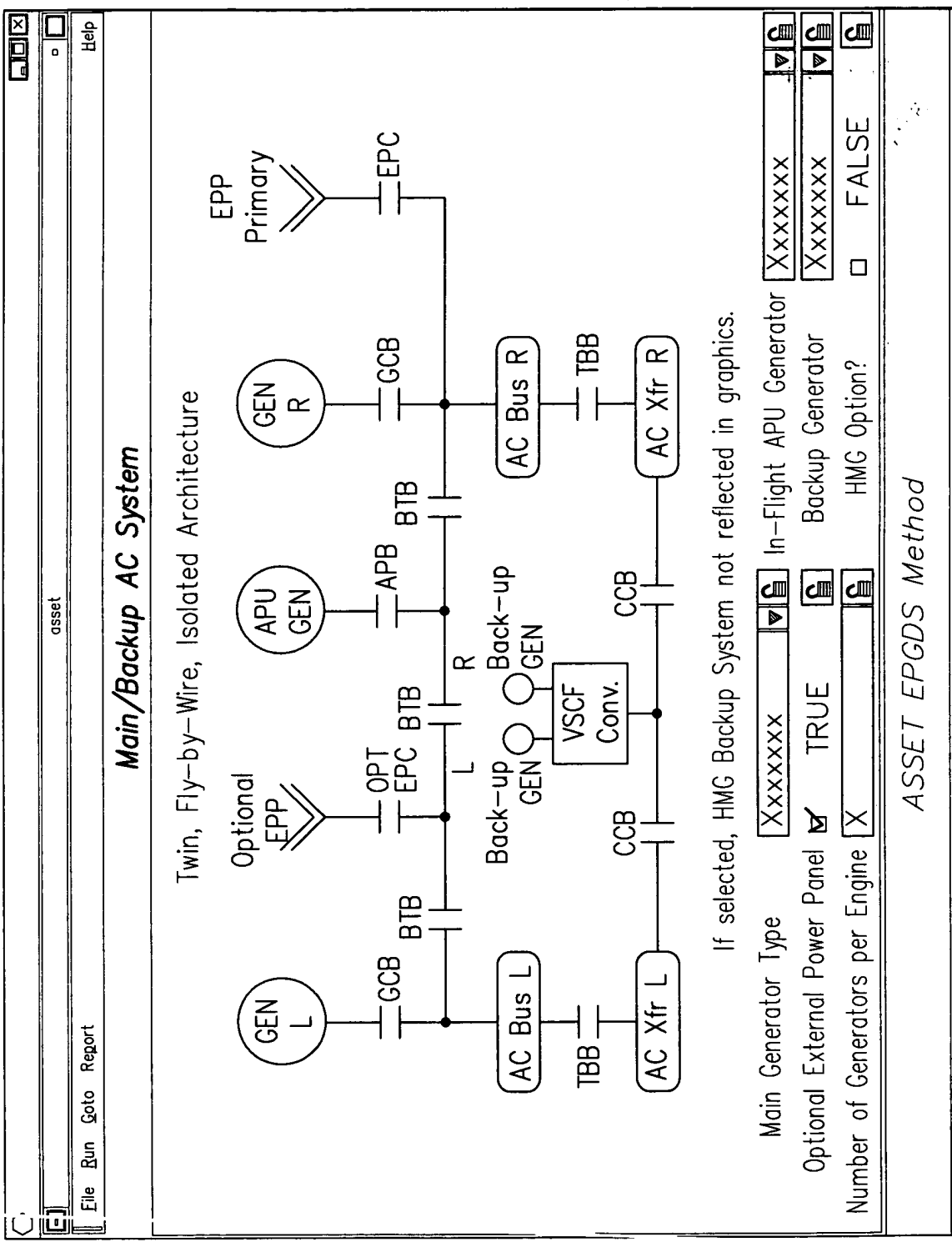
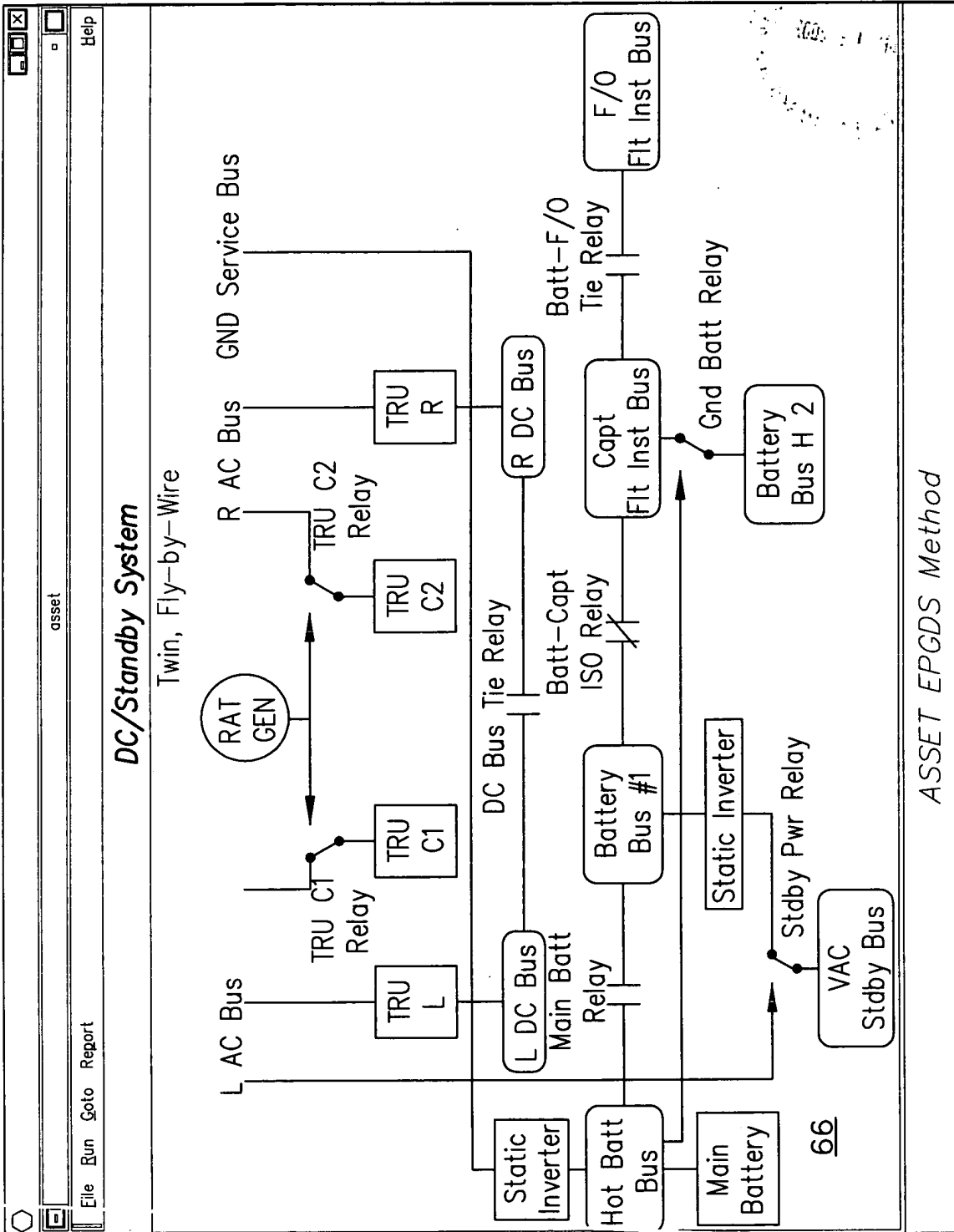


FIG. 15

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ASSET EPGDS Method

FIG. 16

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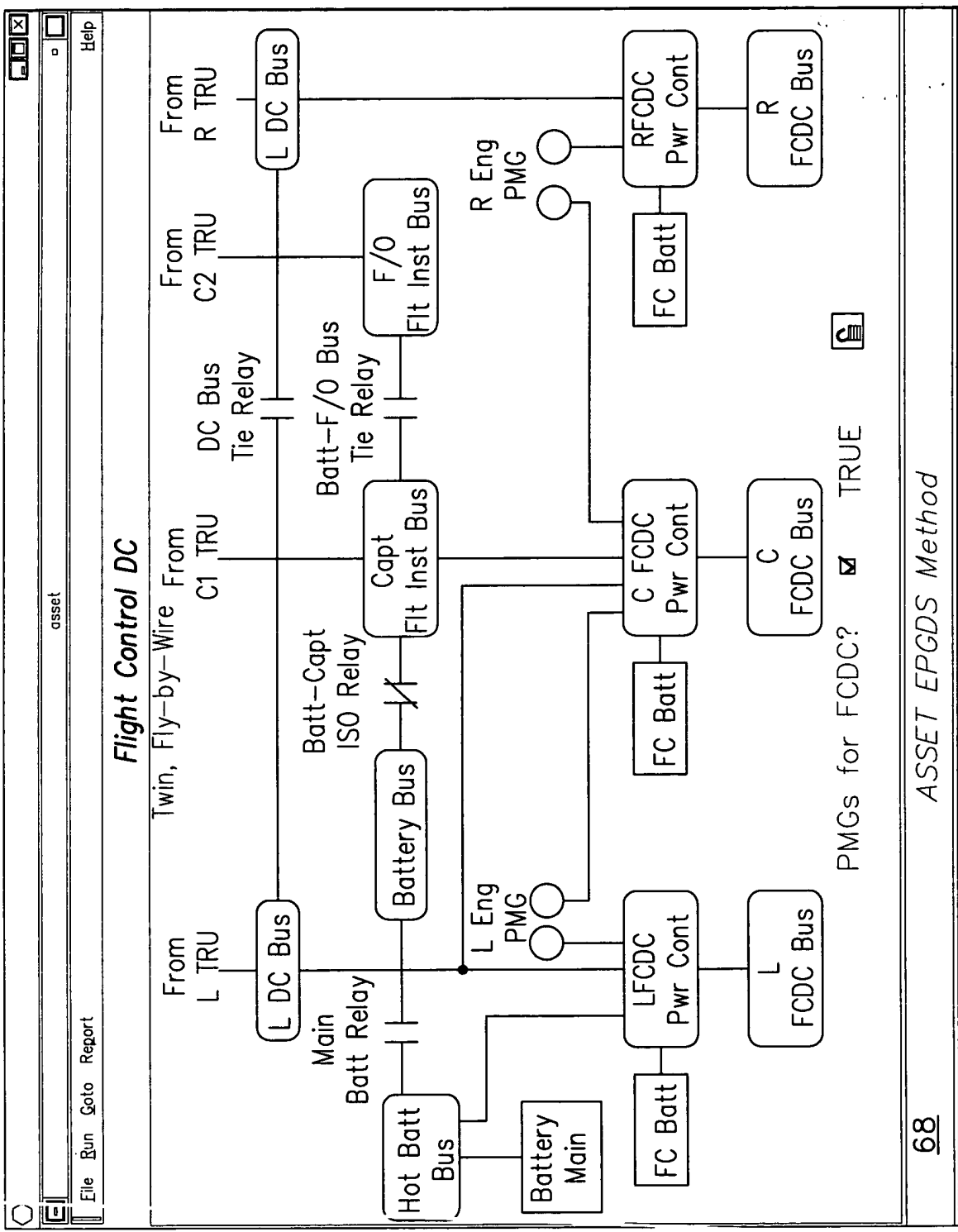


FIG. 17

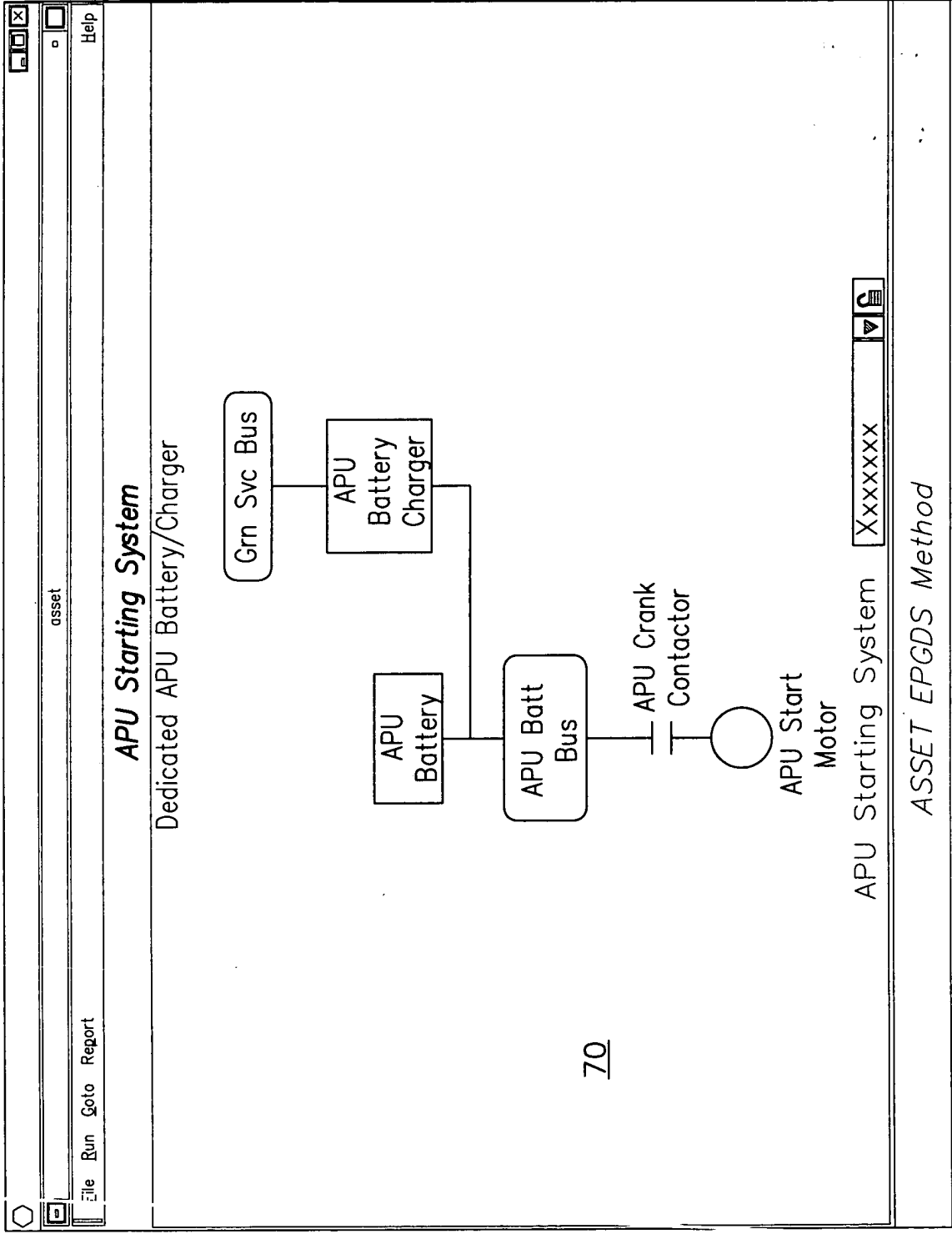


FIG. 18

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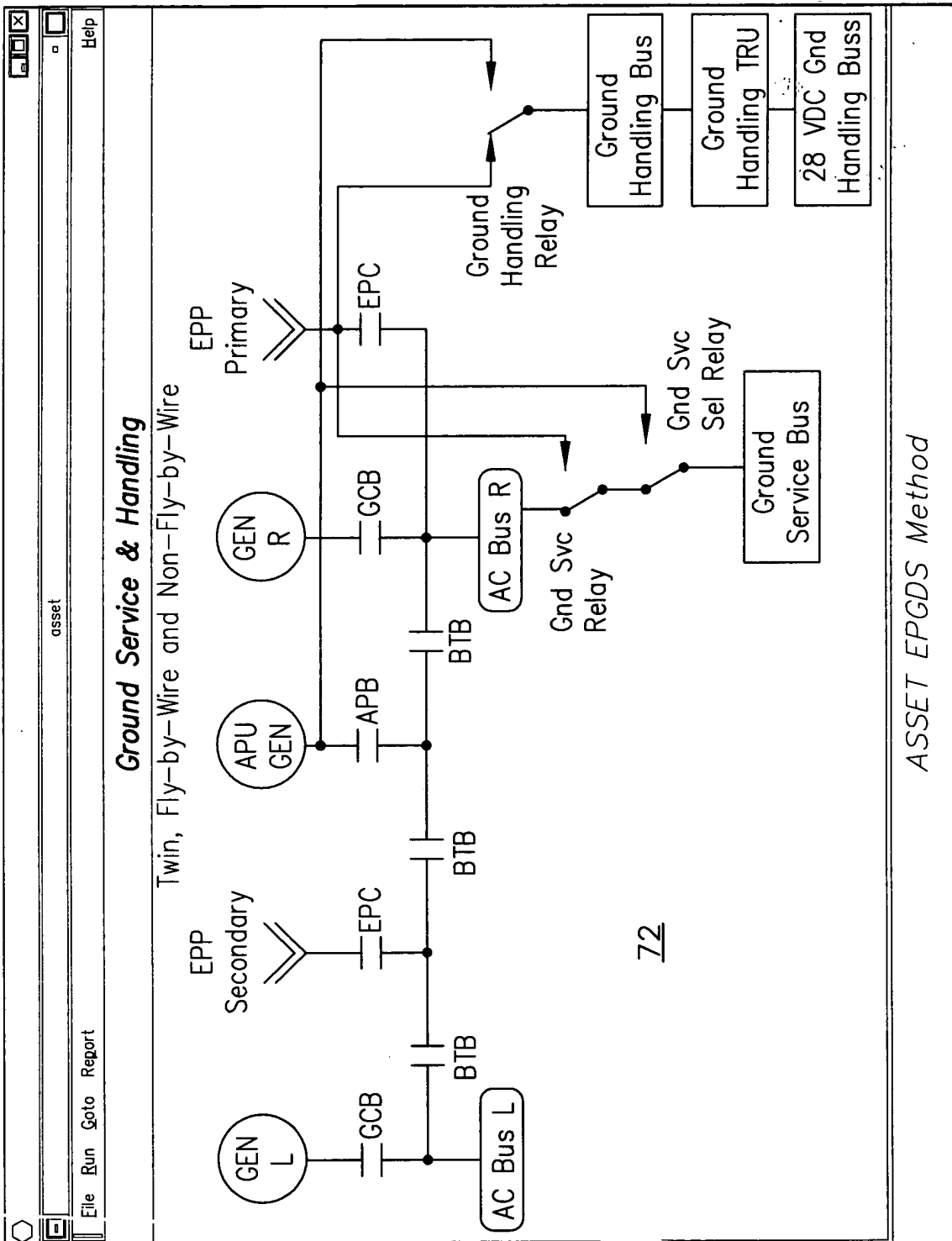


FIG. 19

APPROVED BY CRAFTSMAN

O.G. TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND CLASS EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION S COMPONENTS

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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asset

Help

File Run Goto Report

Next Previous Back

Airplane Parameters

MACELLE

EPCDS

Leading Edge

Floor Beam

Application

Max Weight

Configuration

Loads

Architecture

Generation

Distribution

System Attributes

Weight Summaries

Stage

db d

AP acous

Max GW/Eng

Max total thrust/Eng

Thrust/GW ratio

Airplane Type

Number of Passengers

Range

Airplane Parameters

XXXXXX.

X

XXX.

AC Power Generation

APU Generator

Emergency Power Generation

Generator Control Units

Back Up AC Power

Transformer Rectifier Unit (TRU)

Batteries and Battery Chargers

Eight Control DC Power

Transformers

XXXXXX XXXX

XXX.

XXXX.

LB

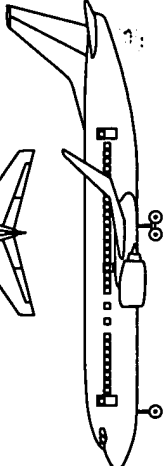
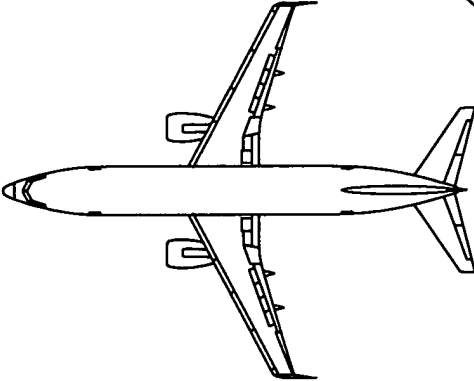
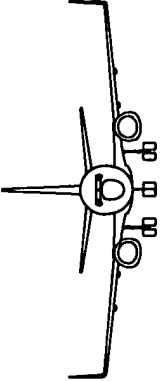
KTS

DB

LB

LB

NM



ASSET Main Module

FIG. 20

206010" 22500660

APPROVED	O.G. FICEVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS	
BY	CLASS	SUBCL
CRAFTSMAN		

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND
INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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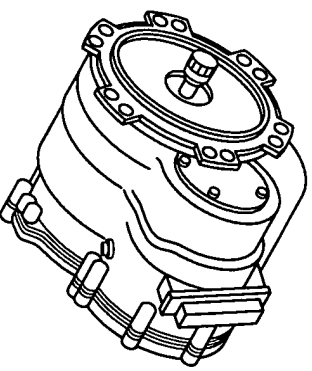
asset		Help	
AC Power Generation			
Generator Input Speed		XXXXX.	RPM
Method of Cooling		Xxxxxx	
Generator Capacity		XX.X	KVA
Main AC Power Generator Weight		XXX.X	LB
VSCF Converter Config.		Xxxxxx	
Maximum Converter Load		X.X	KVA
Main Converter Unit Weight		X.X	LB
IDG			
ATA	Chapter	Section Title	Motor Controller Load KVA
◇	◇	◇	◇
◇	◇	◇	◇
◇	◇	◇	◇
◇	◇	◇	◇
◇	◇	◇	◇
◇	◇	◇	◇
IDG Hydraulics		Xxxxxx	Motor Controller Weight
Total Motor Controller Weight		XX.X	LB
ASSET EPGDS Method			
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FIG. 21

APU Generator	
In-Flight Operable APU	<input checked="" type="checkbox"/> TRUE
APU Generator Capacity	XX.X KVA
APU Generator Weight	XX.X LB
Number of APU Generators	X.X

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ASSET EPGDS Method

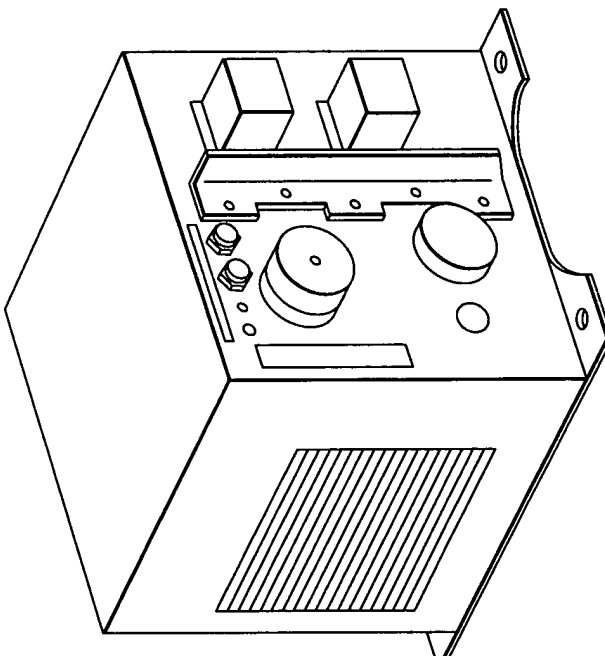
FIG. 22

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File Run Goto Report
asset
Help

Generator Control Units



Unit Size

Unit Weight

Main AC

X.X	X.X
X.X	X.X

APU

X.X	X.X
X.X	X.X

RAT

X.X	X.X
X.X	X.X

MCU

X.X	X.X
X.X	X.X

FIG. 23

FIG. 25

206010-22500660

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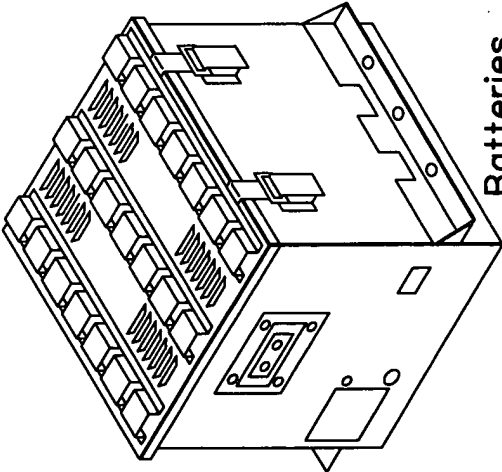
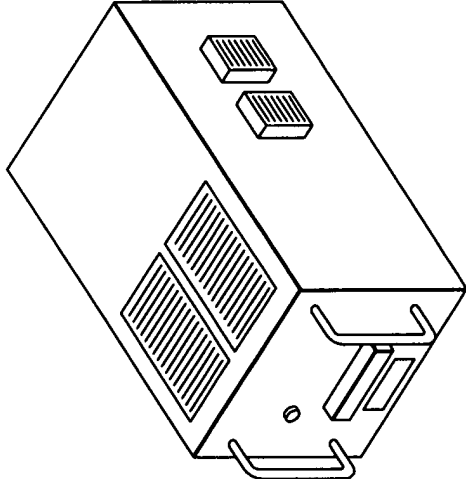
asset		Help	
Batteries and Battery Chargers			
			
Batteries		Battery Chargers	
MAIN Battery		APU Battery	
Nominal Capacity	AMP-HRS	Output Capacity	AMPS
Battery Weight	LB	Battery Charger Weight	LB
XX.X	XXX.X	XX.X	XX.X
XX.X	XXX.X	XX.X	XX.X
ASSET EPGDS Method		ASSET EPGDS Method	

FIG. 26

		asset		Help	
Flight Control DC Power					
Power Supply Assemblies (PSAs)					
Output Power	XXX.X	WATTS		Number of Dedicated Batteries	X
Converter Architecture	Xxxx Xxxxxxxv			PSA Battery Unit Weight	XX.X
PSA Cabinet Weight	XX.X	LB			LB

ASSET EPGDS Method

FIG. 27

206070-22600560

CLASSIFIED
DRAFTSMAN

FIG. 3
CLASS. 375

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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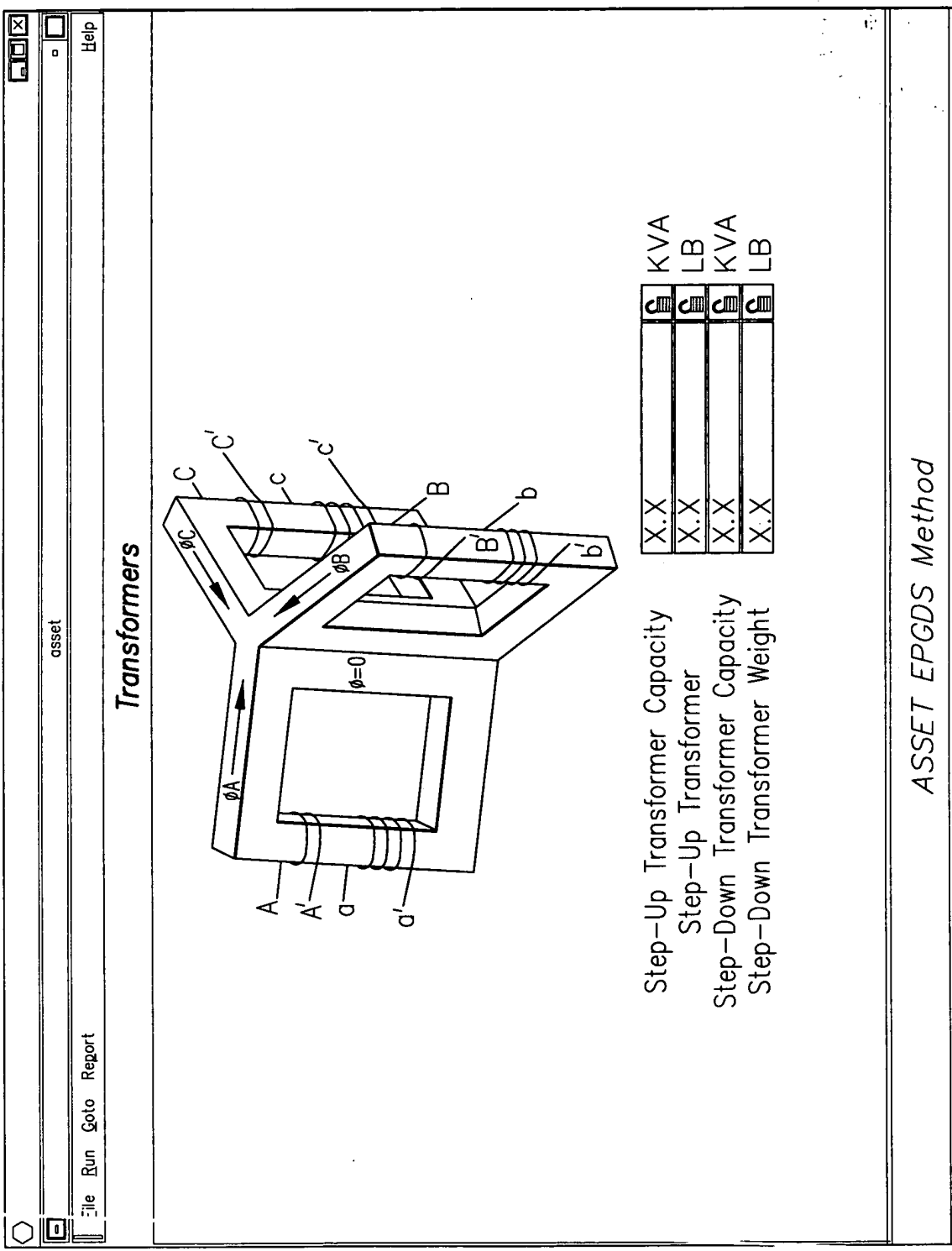


FIG. 28

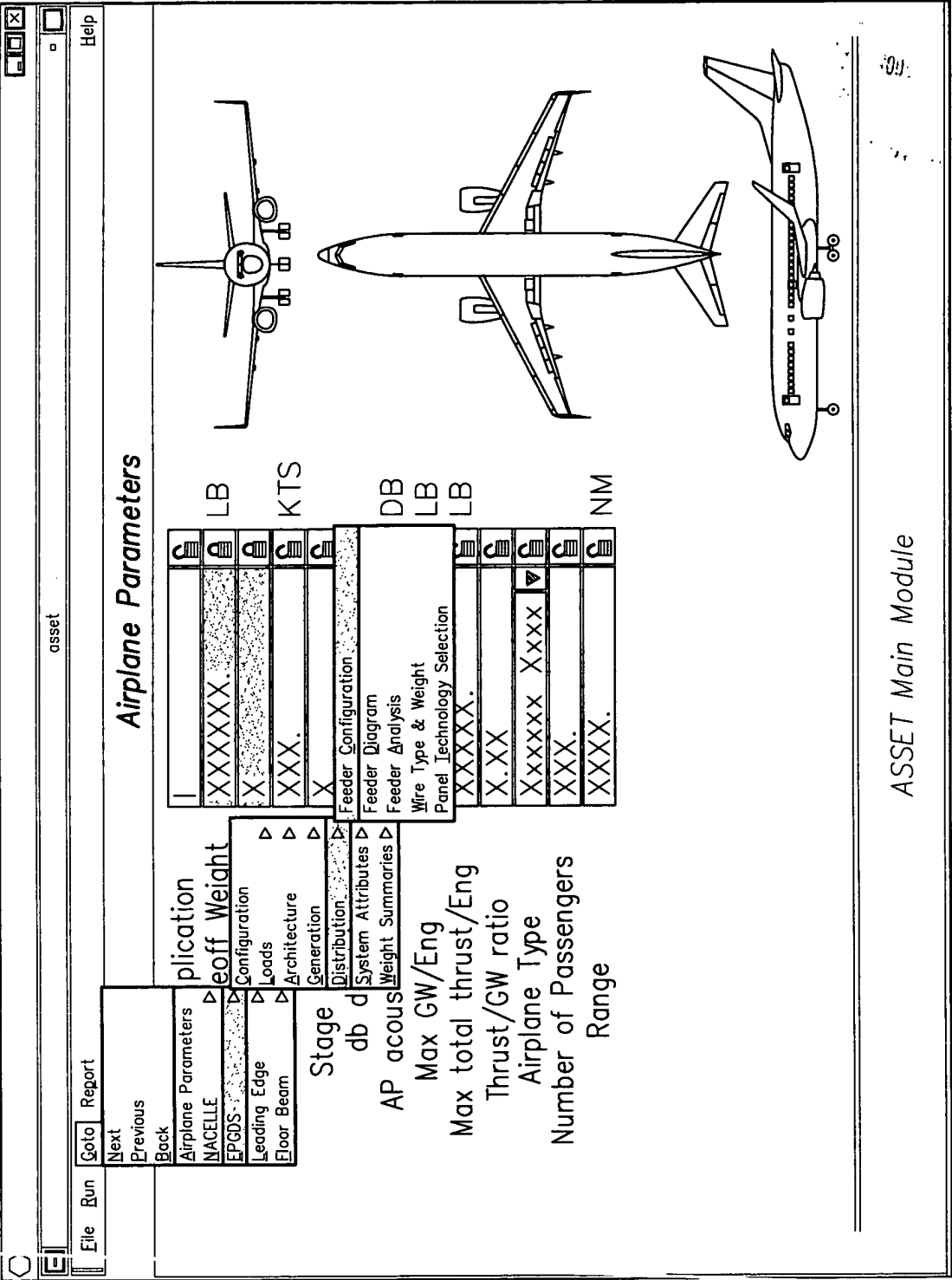
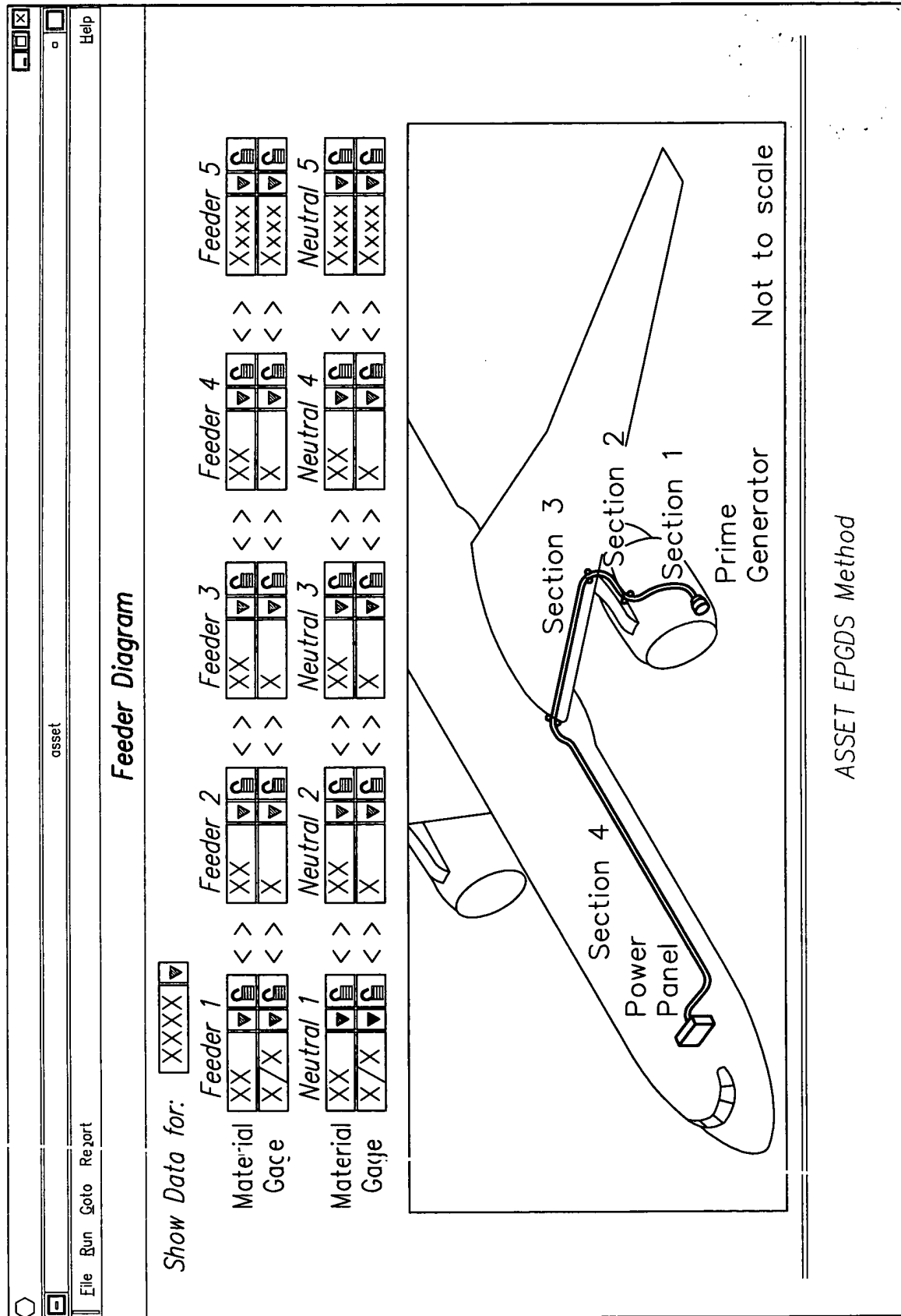


FIG. 29

		Help											
File Run Goto Report													
asset													
<h2 style="margin: 0;">Feeder Configuration</h2>													
<p>Show Data for: XXXX</p>													
<p>Feeder 1:</p> <p>Feeder 2:</p> <p>Feeder 3:</p> <p>Feeder 4:</p> <p>Feeder 5:</p>	<p>< ></p> <p>< ></p> <p>< ></p> <p>< ></p> <p>< ></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 5px;">X-Xxxx x/Xxxx</td> <td style="text-align: center; padding: 5px;"></td> </tr> <tr> <td style="text-align: center; padding: 5px;">X X-Xxxx x/Xxxx</td> <td style="text-align: center; padding: 5px;"></td> </tr> <tr> <td style="text-align: center; padding: 5px;">X X-Xxxx x/Xxxx</td> <td style="text-align: center; padding: 5px;"></td> </tr> <tr> <td style="text-align: center; padding: 5px;">X X-Xxxx x/Xxxx</td> <td style="text-align: center; padding: 5px;"></td> </tr> <tr> <td style="text-align: center; padding: 5px;">Xxxx</td> <td style="text-align: center; padding: 5px;"></td> </tr> </table>	X-Xxxx x/Xxxx		X X-Xxxx x/Xxxx		X X-Xxxx x/Xxxx		X X-Xxxx x/Xxxx		Xxxx		
X-Xxxx x/Xxxx													
X X-Xxxx x/Xxxx													
X X-Xxxx x/Xxxx													
X X-Xxxx x/Xxxx													
Xxxx													
<h3 style="margin: 0;">Bundle Cross-Sections</h3>													
<p>3-Wire</p> <p>3-Wire w/Ntrl</p>	<p>3-Wire w/Spcr</p> <p>3-Wire w/Ntrl w/Spcr</p>	<p>2 3-Wire</p> <p>2 3-Wire w/Mtrl</p>	<p>2 3-Wire w/Spcr</p> <p>2 3-Wire w/Ntrl w/Spcr</p>	<p>6-Wire</p> <p>6-Wire w/Ntrl</p>	<p>6-Wire w/Spcr</p> <p>Blank</p>								

FIG. 30



206010" 22500660

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File Run Goto Report

asset

Help

Feeder Analysis

Show Data for:

	Feeder 1	Feeder 2	Feeder 3	Feeder 4	Feeder 5
Phase Current	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>
Feeder Temperature Rise	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>
Bundle Derating	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>
Sizing Altitude	<input type="text" value="XXXX"/>	<input type="text" value="XXXX"/>	<input type="text" value="XXXX"/>	<input type="text" value="XXXX"/>	<input type="text" value="XXXX"/>
Altitude Derating	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>
Ambient Temperature	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>
Feeder Temperature	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>
Max Wire Temperature	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>
Temperature Margin	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>
Feeder Length	<input type="text" value="X.XX"/>	<input type="text" value="XX.XX"/>	<input type="text" value="XX.XX"/>	<input type="text" value="XX.XX"/>	<input type="text" value="X.XX"/>

Maximum Voltage Drop

VOLTS

Total Voltage Drop

VOLTS

Voltage Drop Margin

VOLTS

ASSET EPGDS Method

FIG. 32

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File Run Goto Report

asset

Help

Wire Type & Weight

Show Data for:

Wire Type, Feeder 1:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="XX.X"/>	<input type="text" value="LB"/>
Wire Type, Neutral 1:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Wire Type, Feeder 2:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="XX.X"/>	<input type="text" value="LB"/>
Wire Type, Neutral 2:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Wire Type, Feeder 3:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="XX.X"/>	<input type="text" value="LB"/>
Wire Type, Neutral 3:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Wire Type, Feeder 4:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="XX.X"/>	<input type="text" value="LB"/>
Wire Type, Neutral 4:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Wire Type, Feeder 5:	<input type="text" value="XXX XX-XX XXXX XX"/>	<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Wire Type, Neutral 5:	<input type="text" value="XXX XX-XX XXXX XX"/>	<input type="text" value="X.X"/>	<input type="text" value="LB"/>
TRU Feeder Weight		<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Total Wire Weight		<input type="text" value="XX.X"/>	<input type="text" value="LB"/>

ASSET EPGDS Method

FIG. 33

Figure 1

File

Run

Goto

Reports

asset

Help

Panel Technology Selection

Technology Factors:

Backplane

ELMS

Other

X.XX

X.XX

X.XX

ASSET EPGDS Method

FIG. 34

FIG. 35

[illegible]

Common Dependability Cost Inputs	
Number of Main Generators per Airplane	X
Average Number of Flights per Year per Airplane	XXXX.
Average Flight Hours per Flight	XXX.X
Airplane Feet Size	XX
Length of System Life in Years (1 - 30 Yrs.)	XX
Average Non-fuel Inflation Rate beyond Present Year	X.XXX
Minimum Attractive Rate of Return	X.XX

FIG. 36

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System Acquisition Costs	
System Acquisition Cost, Base Year (per fleet)	X. <input type="text"/> DOLLARS
System Support Equipment Cost, Base Year (per fleet)	X. <input type="text"/> DOLLARS
System Initial Training Cost, Base Year (per fleet)	X. <input type="text"/> DOLLARS
System Acquisition Cost per Airplane per Year	XXXX. <input type="text"/> DOLLARS

ASSET EPGDS Method	
--------------------	--

FIG. 37

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asset		Help	
File Run Goto Report			
Fuel Costs			
Fuel cost per Gallon, Base Year	X.XX		DOLLARS
Lbs Fuel Burned/Flight Hour/Lb Additional Weight	X.XXXX		HRS^-1
System Weight (per airplane)	XXX.X		LB
System Direct Horsepower Requirement (per airplane)	X.		HP
System Drag Horsepower Requirement (per airplane)	X.		HP
System Cooling Horsepower Requirement	X.		HP
System Pound of Fuel per Block Trip (per airplane)	X.		LB
Average Fuel Inflation Rate Beyond Present Year	X.XXX		%
Fuel Cost (NPV of Life Cycle Cost)	XXXXXX.		DOLLARS
Fuel Cost per Airplane per Year	XXXX.		DOLLARS
ASSET EPGDS Method			

FIG. 38

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206010-22500660

Spares Costs	
Cost/Spare Unit, Base Year	XXXXXX. DOLLARS
Spares Holding Factor	X.XX %
Shop Turnaround Time in Days	XX.X DAYS
Main Base Fill Rate (must be less than 1)	X.XX HRS
Mean Time Between Unscheduled Removals	XXXXXX. HRS
Mean Time Between Overhauls	X. HRS
Number of Spares Required	X.
Initial Spares Cost	XXXXXXX. DOLLARS
Spares Holding Cost (NPV of Life Cycle Cost)	XXXXXXX. DOLLARS
Spares Cost (NPV of Life Cycle Cost)	XXXXXXX. DOLLARS
Spares Cost per Airplane per Year	XXXX. DOLLARS

ASSET EPGDS Method

FIG. 39

APPROVED BY CRAFTSMAN

O.G. FIG CLASS

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION S COMPONENTS
INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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asset

Line Maintenance Costs

Direct Labor Rate per Hour
Maintenance Labor Burden Factor
Mean Time Between Unscheduled Removals
Line Labor Hours Required per Removal
Line Labor Hours per Maintenance Action (Non-Removal)
Maintenance Actions per 1000 Flight Hours (Non-Removal)

XX.XX		DOLLARS/HOUR
X.X		
XXXXX.		HRS
X.X		HRS
X.X		HRS
X.XX		HRS^-1

Line Maintenance Cost (NPV of Life Cycle Cost)
Line Maintenance Cost per Airplane per Year

XXXXX.		DOLLARS
XXX.		DOLLARS

ASSET EPGDS Method

FIG. 40

205010" 22500660

APPROVED	TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND	
BY	O.G. FIG.	EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS
CLASS	SUBC.	
RAFTSMAN		

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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Shop Maintenance Costs	
Direct Labor Rate per Hour	XX.XX DOLLARS/HOUR
Maintenance Labor Burden Factor	X.X
Mean Time Between Unscheduled Removals	XXXXX. HRS
Main Generator Mean Time Between Failures	XXXXX. HRS
Mean Time Between Overhauls	X. HRS
Shop Labor Man-Hours per Unconfirmed Failure (Test Time)	X.X HRS
Shop Labor Man-Hours per Failure (Repair and Test)	XX.X HRS
Shop Labor Hours per Overhaul	X.X HRS
Average Shop Material Cost per Failure, base year	XXXXX. DOLLARS
Overhaul Materials Cost per Overhaul	X. DOLLARS
Shop Maintenance Cost (NPV of Life Cycle Cost)	
Shop Maintenance Cost per Airplane per Year	XXXXXXX. DOLLARS
XXXXXX. DOLLARS	

ASSET EPGDS Method

FIG. 41

206010" 22500660

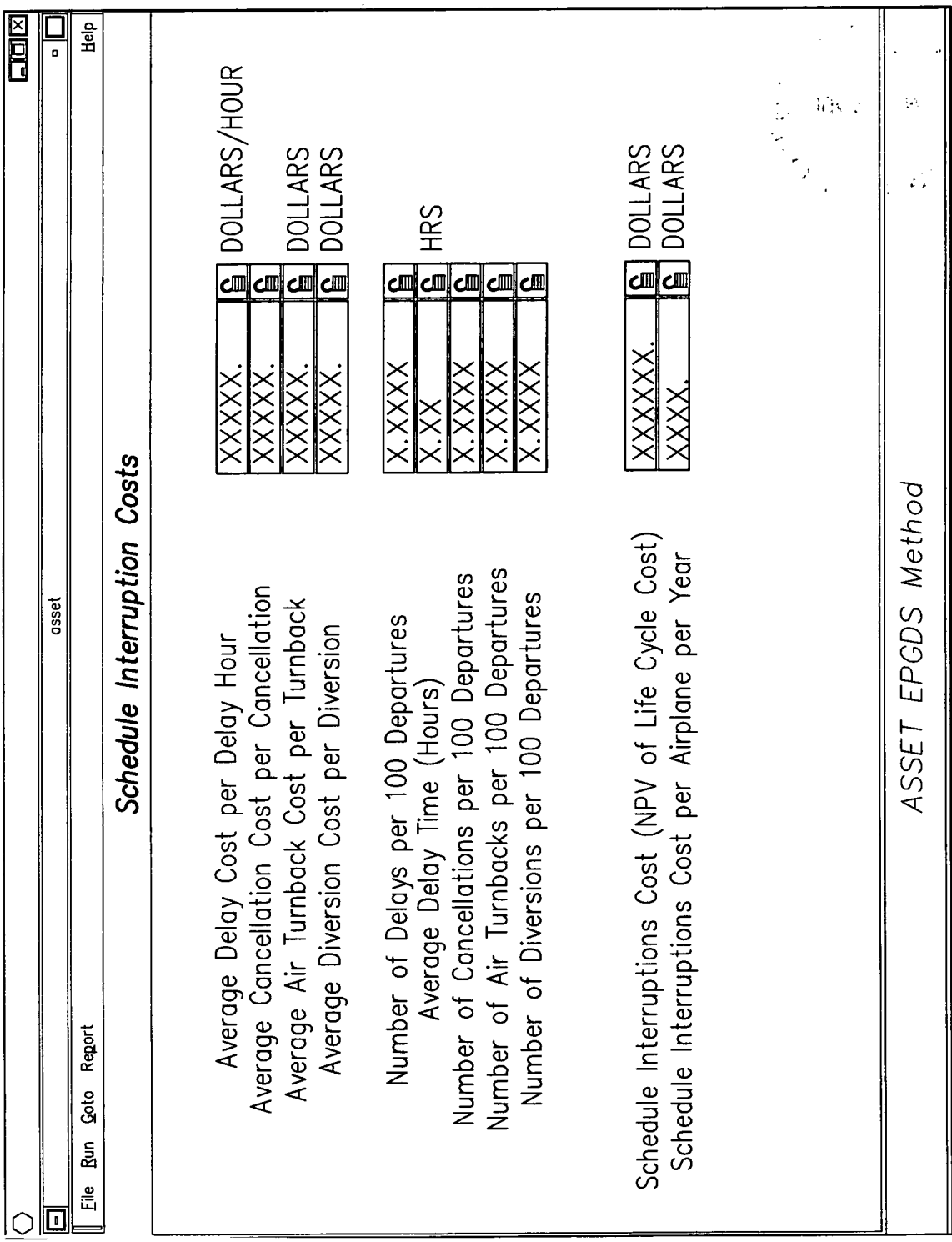
48/87

Scheduled Maintenance Costs	
Direct Labor Rate per Hour	XX.XX DOLLARS/HOUR
Maintenance Labor Burden Factor	X.X
Mean Time Between Unscheduled Removals	XXXXX. HRS
Schedule Maintenance Inspection Man Hours per 1000 Flight Hours	X.X X.X
Rectification Man Hours per 1000 Flight Hours	X.X
Scheduled Maintenance Material Dollars per 1000 Flight Hours	X.XX HRS^-1
Scheduled Maintenance Cost (NPV of Life Cycle Cost)	XXXXXXXXX. DOLLARS
Scheduled Maintenance Cost per Airplane per Year	XXXXX. DOLLARS

ASSET EPGDS Method

FIG. 42

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asset

Help

Dependability Cost Summary

83a

Line Maintenance Cost
Shop Maintenance Cost
Scheduled Maintenance Cost
Schedule Interruptions Cost
Spares Cost
Fuel Cost

NPV of Life Cycle Cost

83b

Per Airplane per Year

DOLLARS
DOLLARS
DOLLARS
DOLLARS
DOLLARS
DOLLARS

Dependability Cost

XXXXXXXXXX.

XXXXXXXXXX.

XXXXXXXXXX.

XXXXXXXXXX.

XXXXXXXXXX.

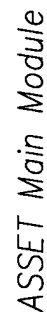
XXXXXXXXXX.

DOLLARS

83

ASSET EPGDS Method

FIG. 44



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File Run Goto Report		asset		Help	
Reliability Inputs					
Average Flight Hours per Flight		X.XX	IFSD Rates (per 1000 flight hours)		
LRU MTBF's					
Main Generator MTBF	XXXXXX.	Engine In-flight Shutdowns per 1000 hours	X.XXX	HRS^-1	
APU Generator MTBF	XXXXXX.	APU In-flight Shutdowns per 1000 hours	X.XXX	HRS^-1	
Failure to Start Probabilities					
VSCF Backup Generator MTBF	XXXXXX.	APU No-Start Probability	X.XXX		
Generator Control Unit (GCU) MTBF	XXXXXX.X.	Probability of RAT Unavailable when Required	X.Xe-XX		
Backup Converter MTBF	XXXXXX.	Other Failure Rates (per flight hour)			
Generator Control Breaker (GCB) MTBF	XXXXXX.X.	Rate of Other Channel Faults	X.Xe-XX	HRS^-1	
Rain Air Turbine MTBF	XXXXXX.	Main Generator Shaft Shear Rate	X.Xe-XX	HRS^-1	
RAT Gen. Control Unit MTBF	XXXXXX.	Backup Generator Shaft Shear Rate	X.Xe-XX	HRS^-1	
Permanent Magnet Generator(PMG) MTBF	XXXXXX.X.				
Main and APU Battery MTBF	XXXXXX.				
Main and APU Battery Charger MTBF	XXXXXX.				
ASSET EPGDS Method					

FIG. 46

206010" 22500660

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND
O.G. FIG. EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION S COMPONENTS

BY

CLASS SUBC

INVENTOR: BOND, et al.

SN: 09/900,522; FILED 7/6/01

ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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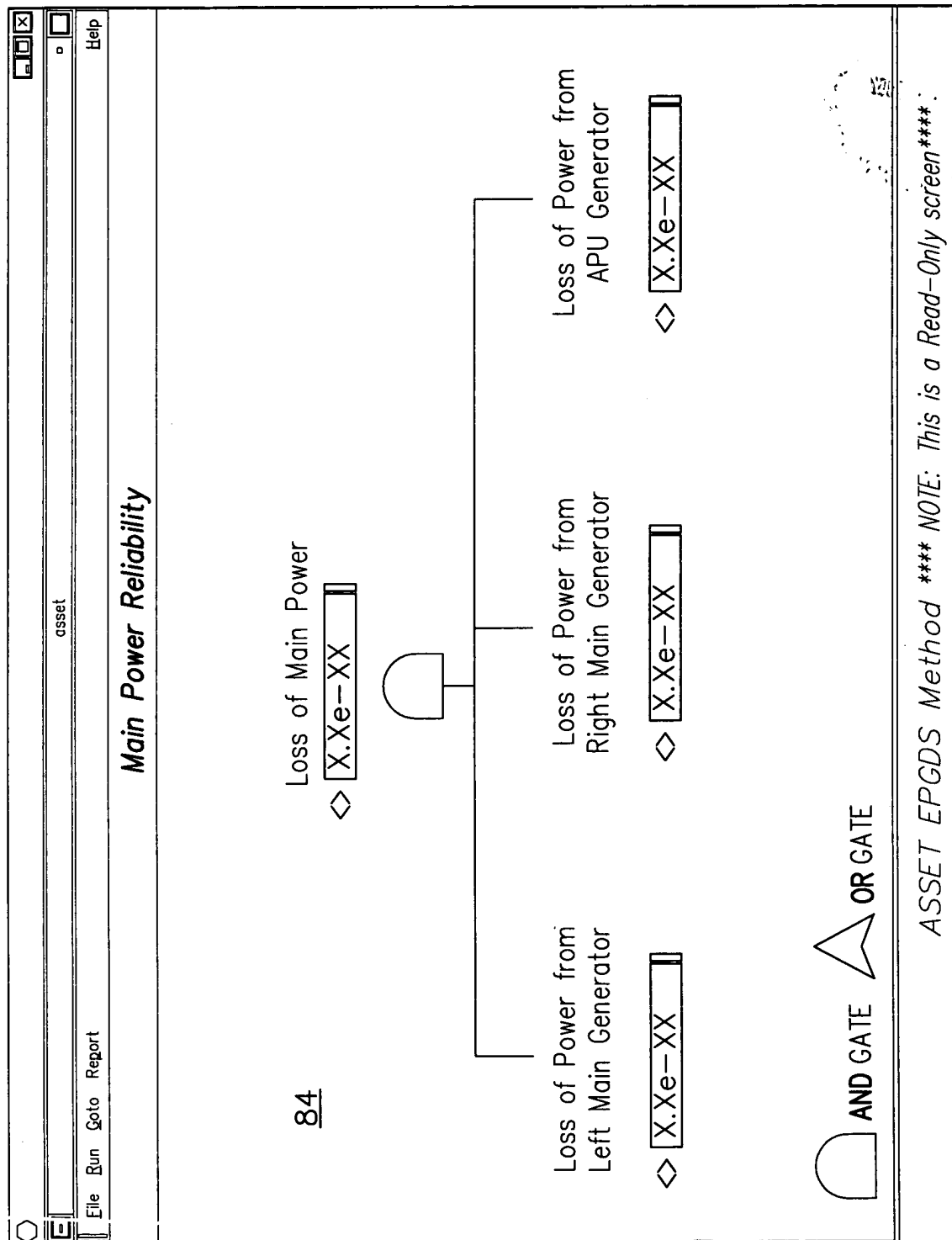


FIG. 47

206010-22500660

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND
EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS

APPROVED	O.G. FIG.	
BY	CLASS	SUBC
RAFTSMAN		

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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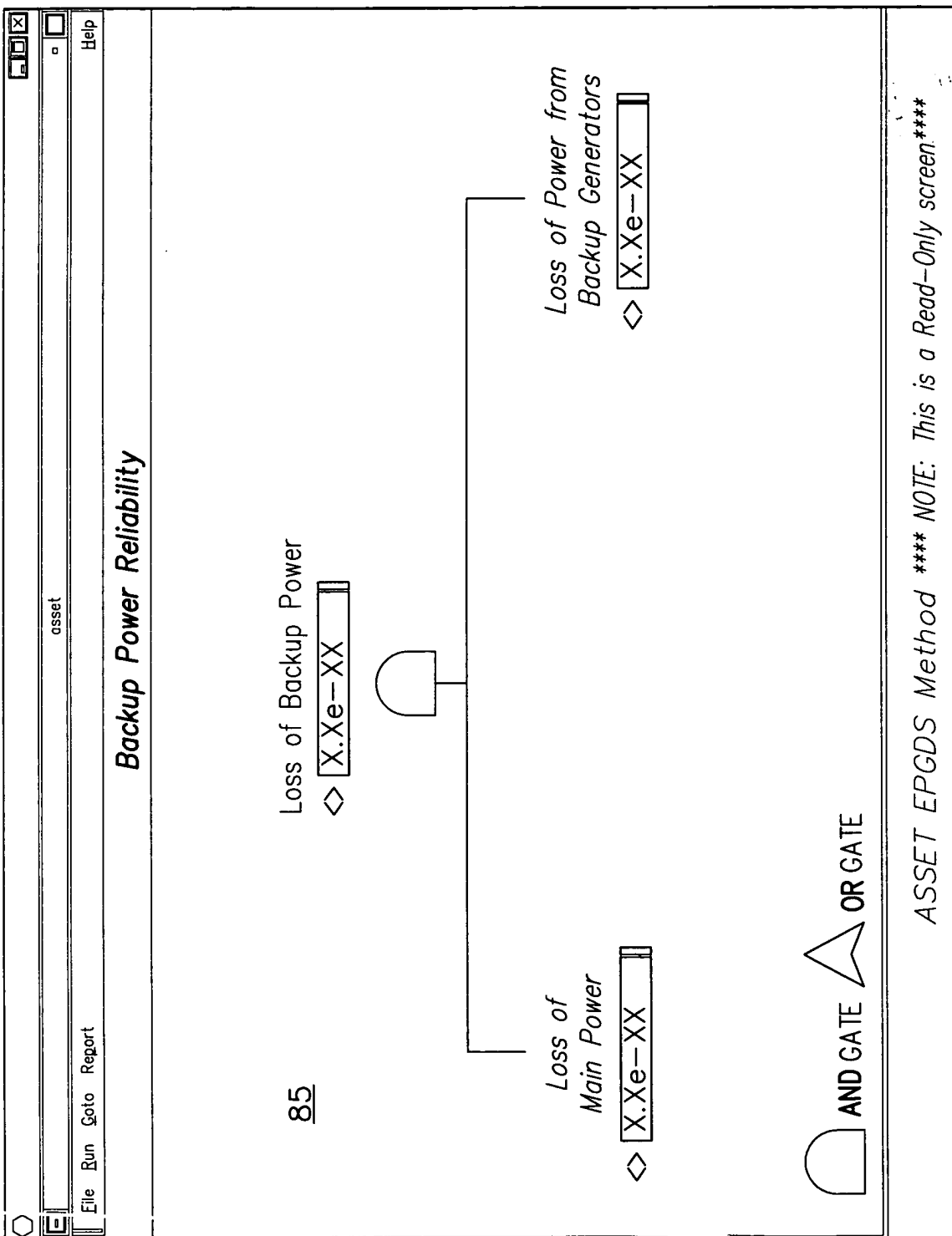


FIG. 48

206070" 22500660

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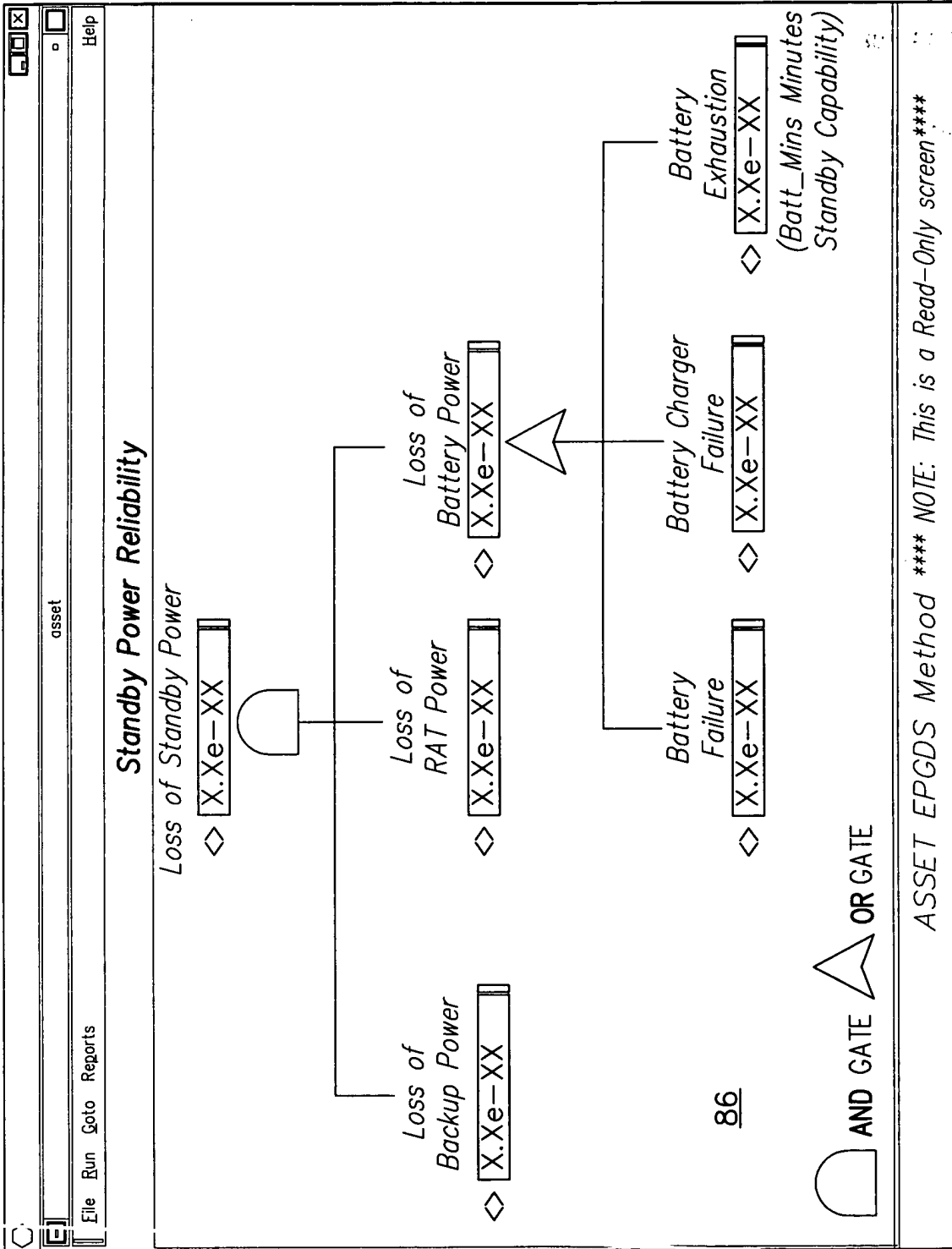


FIG. 49

206010" 22500660

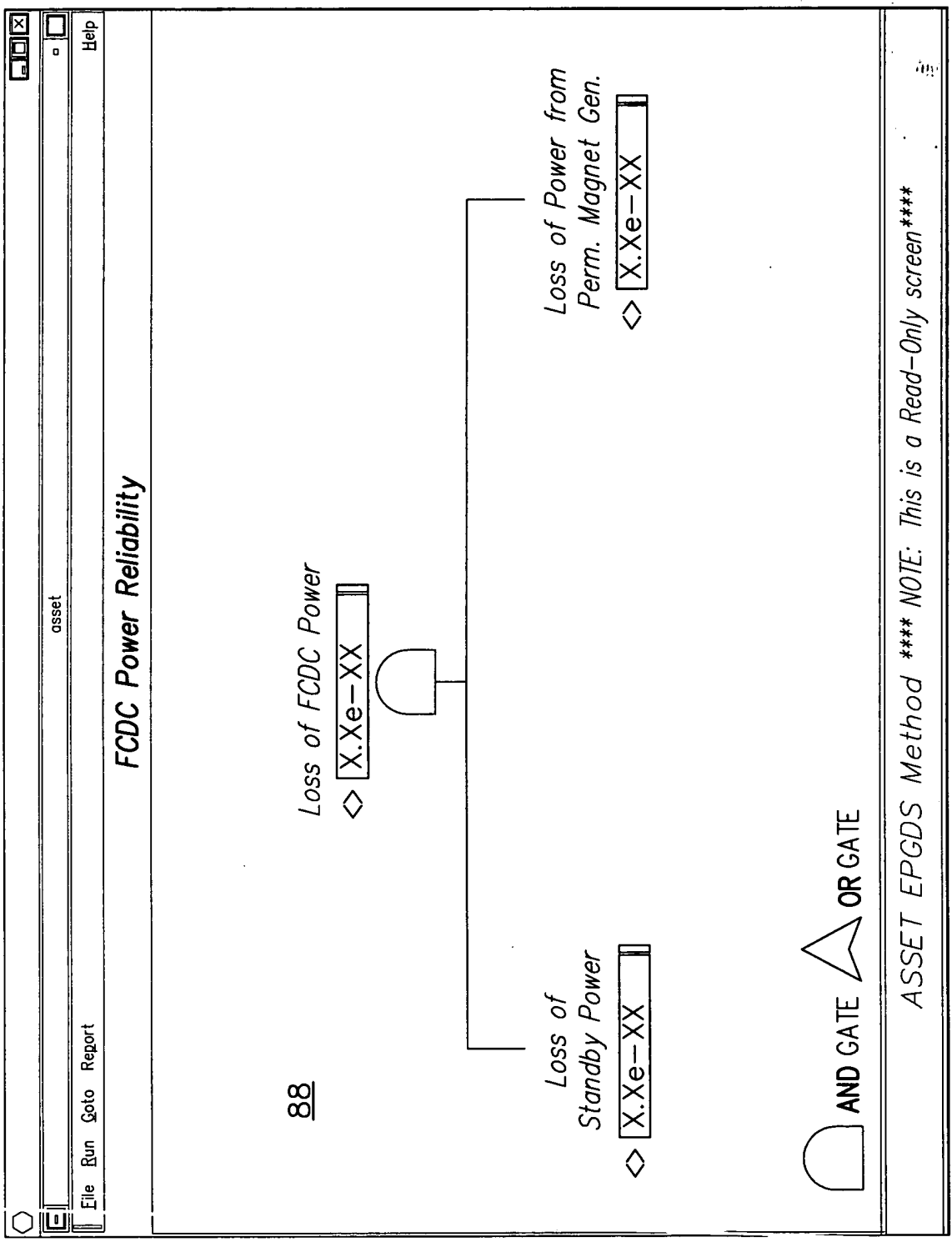


FIG. 50

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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[illegible]

FIG. 51

206010 22500660

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Maintenance Times			
	Unscheduled Removals	Servicing	Alignment & Adjustment
Frequency (Flight Hours)			
Mean Time Between Unscheduled Removals	XXXXXX	XXX.	XXXX
Maintenance Interval			
Maintenance Corrective Times (Flight Hours)			
Main Generator Unscheduled Removal Access Time	X.XX	X.XX	X.XX
Main Generator Unscheduled Removal Fault Isolation Time	X.XX		
Repair / Removal & Replace Time	X.XX		
Main Generator Unscheduled Removal Servicing Time	X.XX	X.XX	
Main Generator Unscheduled Removal Alignment & Adjustment Time	X.XX		X.XX
Main Generator Unscheduled Removal Checkout / Verification Time	X.XX		X.XX
Main Generator Unscheduled Removal Closing UpTime	X.XX	X.XX	X.XX
Main Generator Unscheduled Removal Mean Corrective Time	X.	X.	X.
ASSET EPGDS Method			
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FIG. 52

206010" 22500660

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asset				Help
File Run Goto Report				
Preparation Times				
Maintenance Preparation Times (Flight Hours)				
Main Generator Unscheduled Removal Maintenance Coordination Time	X.XX	◇	X.XX	◇
Main Generator Unscheduled Removal Dispatch Delay Time	X.XX			
Main Generator Unscheduled Removal Airplane Ferrying Time	X.XX			
Main Generator Unscheduled Removal Supply Delay Time	X.	◇	X.XX	
Main Generator Unscheduled Removal Spares & Equipment Issuing Time	X.XX			◇
Main Generator Unscheduled Removal Transport Delay Time	X.XX			
Main Generator Unscheduled Removal Maintenance Delay Time	X.XX	◇	X.XX	◇
Main Generator Unscheduled Removal Maintenance Preparation Time	X.	◇	X.	◇
ASSET EPGDS Method				
92				

FIG. 53

   	<div style="border: 1px solid black; padding: 2px; display: inline-block;">asset</div>		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Help</div>
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Inherent Availability





Maintenance Preparation Times (Flight Hours)


Main Generator Mean Time to Repair

Main Generator Mean Maintenance Preparation Time

Main Generator Mean Maintenance Down Time

Main Generator Mean Time Between Maintenance

X.XXX	
X.XXX	
X.XXX	
XXX.X	

X.XXXXXX	
----------	---

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ASSET EPGDS Method

FIG. 54

2060T0" 22500660

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asset Help

Airplane Parameters

NACELLE

EPGDS

Leading Edge

Floor Beam

Application

coeff Weight

Configuration

Loads

Architecture

Generation

Distribution

System Attributes

Weight Summaries

Stage

db d

AP acous

Max GW/Eng

Max total thrust/Eng

Thrust/GW ratio

Airplane Type

Number of Passengers

Range

LB

KTS

DB

XXXXXX.

X

XXX.

X

V

ATA 24 Weight Summary

EC 32 Weight Summary

Below Wing Weight

XXXXXX.

X.XX

XXXXXX XXXX

XXX.

XXXX.

24-09, Electrical Power Distribution

24-10, Generator Drive

24-21, Power and Regulation

24-22, Controls and Indication

24-25, Back-up Generator

24-28, Feeders

24-31, Batteries

24-32, Transformer Rectifier

24-33, Emergency Generator

24-35, Flight-Contol DC Power

24-40, External Power

24-51, AC Power Distribution

24-60, DC Power Distribution

WW-01, Wiring Provision

ATA Chapter 24 Weight Totals

ASSET Main Module

FIG. 55

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24-09, Electrical Power Distribution									
Component #		Component Designation		Quantity		Unit Wt.		Subtotal	
<>	P100	<>	Left Primary Power Panel	<>		XX.X		XX.X	LB
<>	P110	<>	Left Mgmt Power Panel	<>		XXX.X		XXX.X	LB
<>	P200	<>	Right Primary Power Panel	<>		XX.X		XX.X	LB
<>	P210	<>	Right Mgmt Power Panel	<>		XXX.X		XXX.X	LB
<>	P300	<>	Auxiliary Power Panel	<>		XX.X		XX.X	LB
<>	P310	<>	Stby Power Mgmt Panel	<>		XXX.X		XXX.X	LB
<>	P320	<>	Ground Hdq/Svs Distribution Panel	<>		XX.X		XX.X	LB
<>		<>		<>		X.X		X.X	LB
<>		<>		<>		X.X		X.X	LB
<>		<>		<>		X.X		X.X	LB
<>		<>		<>		X.X		X.X	LB
<>		<>		<>		X.X		X.X	LB
<>		<>		<>		X.X		X.X	LB
<>		<>		<>		X.X		X.X	LB
<>		<>		<>		X.X		X.X	LB
ATA 24-09, Electrical Power Distribution XXX.X LB									
ASSET EPGDS Method									

FIG. 56

[illegible][illegible]

FIG. 57

FIG. 58

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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姓名	性别	年龄	籍贯	民族	文化程度	职业	婚姻	子女	备注
王德胜	男	45	山东	汉族	高中	教师	已婚	2	
李国强	男	38	河南	汉族	初中	工人	已婚	1	
张为民	男	52	江苏	汉族	大学	医生	已婚	3	
刘小红	女	30	四川	汉族	高中	护士	已婚	1	
陈永年	男	60	浙江	汉族	小学	农民	已婚	4	
赵子龙	男	25	广东	汉族	大学	程序员	未婚	0	
周大伟	男	40	湖北	汉族	初中	司机	已婚	2	
吴小芳	女	35	湖南	汉族	高中	售货员	已婚	1	
孙建国	男	55	安徽	汉族	小学	工人	已婚	3	
郑晓梅	女	28	江西	汉族	大学	教师	未婚	0	
冯志强	男	42	福建	汉族	初中	工人	已婚	2	
马丽娟	女	33	广西	汉族	高中	护士	已婚	1	
徐永平	男	50	贵州	汉族	小学	农民	已婚	4	
黄文娟	女	22	云南	汉族	大学	程序员	未婚	0	
郭为民	男	48	陕西	汉族	初中	工人	已婚	2	
梁小红	女	37	山西	汉族	高中	售货员	已婚	1	
周大伟	男	58	甘肃	汉族	小学	工人	已婚	3	
吴小芳	女	27	宁夏	汉族	大学	教师	未婚	0	
孙建国	男	43	青海	汉族	初中	工人	已婚	2	
郑晓梅	女	32	新疆	汉族	高中	护士	已婚	1	
冯志强	男	53	内蒙古	汉族	小学	农民	已婚	4	
马丽娟	女	23	黑龙江	汉族	大学	程序员	未婚	0	
徐永平	男	47	吉林	汉族	初中	工人	已婚	2	
黄文娟	女	36	辽宁	汉族	高中	售货员	已婚	1	
郭为民	男	56	河北	汉族	小学	工人	已婚	3	
梁小红	女	26	山东	汉族	大学	教师	未婚	0	
周大伟	男	46	河南	汉族	初中	工人	已婚	2	
吴小芳	女	34	江苏	汉族	高中	护士	已婚	1	
孙建国	男	54	浙江	汉族	小学	农民	已婚	4	
郑晓梅	女	24	广东	汉族	大学	程序员	未婚	0	
冯志强	男	44	湖北	汉族	初中	工人	已婚	2	
马丽娟	女	34	湖南	汉族	高中	售货员	已婚	1	
徐永平	男	54	安徽	汉族	小学	工人	已婚	3	
黄文娟	女	24	江西	汉族	大学	教师	未婚	0	
郭为民	男	44	福建	汉族	初中	工人	已婚	2	
梁小红	女	34	广西	汉族	高中	护士	已婚	1	
周大伟	男	54	贵州	汉族	小学	农民	已婚	4	
吴小芳	女	24	云南	汉族	大学	程序员	未婚	0	
孙建国	男	44	陕西	汉族	初中	工人	已婚	2	
郑晓梅	女	34	山西	汉族	高中	售货员	已婚	1	
冯志强	男	54	甘肃	汉族	小学	工人	已婚	3	
马丽娟	女	24	宁夏	汉族	大学	教师	未婚	0	
徐永平	男	44	青海	汉族	初中	工人	已婚	2	
黄文娟	女	34	新疆	汉族	高中	护士	已婚	1	
郭为民	男	54	内蒙古	汉族	小学	农民	已婚	4	
梁小红	女	24	黑龙江	汉族	大学	程序员	未婚	0	
周大伟	男	44	吉林	汉族	初中	工人	已婚	2	
吴小芳	女	34	辽宁	汉族	高中	售货员	已婚	1	
孙建国	男	54	河北	汉族	小学	工人	已婚	3	
郑晓梅	女	24	山东	汉族	大学	教师	未婚	0	
冯志强	男	44	河南	汉族	初中	工人	已婚	2	
马丽娟	女	34	江苏	汉族					

[illegible]

FIG. 59

FIG. 60

asset										Help									
File Run Goto Report																			
24-28, Feeders																			
Component #		Component Designation				Quantity		Unit Wt.		Subtotal									
<>	Gen_Fdrs	<>	Main Generator Feeders , R				<>	<>	XX.X	<>	XX.X	<>	LB	<>	XX.X	<>	LB	<>	XX.X
<>	Gen_Fdrs	<>	Main Generator Feeders , L				<>	<>	XX.X	<>	XX.X	<>	LB	<>	XX.X	<>	LB	<>	XX.X
<>	Gen_J	<>	Main Generator Feeders , Installation R				<>	<>	XX.X	<>	XX.X	<>	LB	<>	XX.X	<>	LB	<>	XX.X
<>	Gen_J	<>	Main Generator Feeders , Installation L				<>	<>	XX.X	<>	XX.X	<>	LB	<>	XX.X	<>	LB	<>	XX.X
<>	Gen_C	<>	Main Generator Feeders , Connectors, R				<>	<>	XX.X	<>	XX.X	<>	LB	<>	XX.X	<>	LB	<>	XX.X
<>	Gen_C	<>	Main Generator Feeders , Connectors, L				<>	<>	XX.X	<>	XX.X	<>	LB	<>	XX.X	<>	LB	<>	XX.X
<>	APU_Fdrs	<>	APU Feeders				<>	<>	XX.X	<>	XX.X	<>	LB	<>	XX.X	<>	LB	<>	XX.X
<>	APU_C	<>	APU Feeders Connectors				<>	<>	XX.X	<>	XX.X	<>	LB	<>	XX.X	<>	LB	<>	XX.X
<>	APU_J	<>	APU Feeders Installation				<>	<>	XX.X	<>	XX.X	<>	LB	<>	XX.X	<>	LB	<>	XX.X
<>		<>					<>	<>	X.X	<>	X.X	<>	LB	<>	X.X	<>	LB	<>	X.X
<>		<>					<>	<>	X.X	<>	X.X	<>	LB	<>	X.X	<>	LB	<>	X.X
<>		<>					<>	<>	X.X	<>	X.X	<>	LB	<>	X.X	<>	LB	<>	X.X
<>		<>					<>	<>	X.X	<>	X.X	<>	LB	<>	X.X	<>	LB	<>	X.X
										ATA 24-28, Feeders									
										XXX.X									
										LB									
ASSET EPGDS Method																			

FIG. 61

FIG. 62

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[illegible]

FIG. 64

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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[illegible]

FIG. 66

ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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[illegible]

FIG. 68

[illegible]

FIG. 69

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asset		Help	
ATA Chapter 24 Weight Totals			
ATA 24-09, Electrical Power Distribution	XXX.X		LB
ATA 24-10, Generator Drive	XXX.X		LB
ATA 24-21, Power and Regulation	XXX.X		LB
ATA 24-22, Controls and Indication	XX.X		LB
ATA 24-25, Back-up Generators	XXX.X		LB
ATA 24-28, Feeders	XXX.X		LB
ATA 24-31, Batteries	XXX.X		LB
ATA 24-32, Transformer Rectifier	XX.X		LB
ATA 24-33, Emergency Generator	XXX.X		LB
ATA 24-35, Flight-Control DC Power	XXX.X		LB
ATA 24-40, External Power	XX.X		LB
ATA 24-51, AC Power Distribution	XXX.X		LB
ATA 24-60, DC Power Distribution	XX.X		LB
WW-01, Wiring Provision	XXX.X		LB
Electrical Power Generation & Distribution System	XXXX.X		LB
ASSET EPGDS Method			

FIG. 70

206070" 22500660

DESIGNED BY	CLASS	SUBC
TRAFTSMAN		

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION S COMPONENTS

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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File Run Goto Report

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Airplane Parameters

MACELLE

EPCDS

Leading Edge

Floor Beam

Application

Max Weight

Configuration

Loads

Architecture

Generation

Distribution

System Attributes

Weight Summaries

Stage

db d

AP acous

Max GW/Eng

Max total thrust/Eng

Thrust/GW ratio

Airplane Type

Number of Passengers

Range

Airplane Parameters

XXXXXX.

XXX.

XXX.

X

X

ATA 24 Weight Summary

FC 32 Weight Summary

Below Wing Weight

XXXXX.

X.XX

XXXXXX XXXX

XXX.

XXXX.

LB

KTS

DB

FC 32, Weight Elements

FC 32-01, AC Power System

FC 32-02, DC Power System

FC 32-03, Airframe Lighting

FC 32-04, Electrical Equipment and Supports

FC 32-05, Indication & Misc. Elec. Systems

FC 32-06, Cargo Panels

FC 32-07, Pwr Phi-W/B Assy/Hldg Tank

FC 32-08, Elec Load Mgmt Sys (ELMS)

FC 32-10, Electrical Sys. Cntrl/Indication

FC 32-23, ARINC 629-Cardfiles, BPCU, GCU, FSCF, ELMS

FC 32-92, Eng/Strut Wiring Instl/Airplane

FC 32-95, HIRF Protection-Electrical

FC 32-97, EBU Wire Bundle Assemblies

ASSET Main Module

FIG. 71

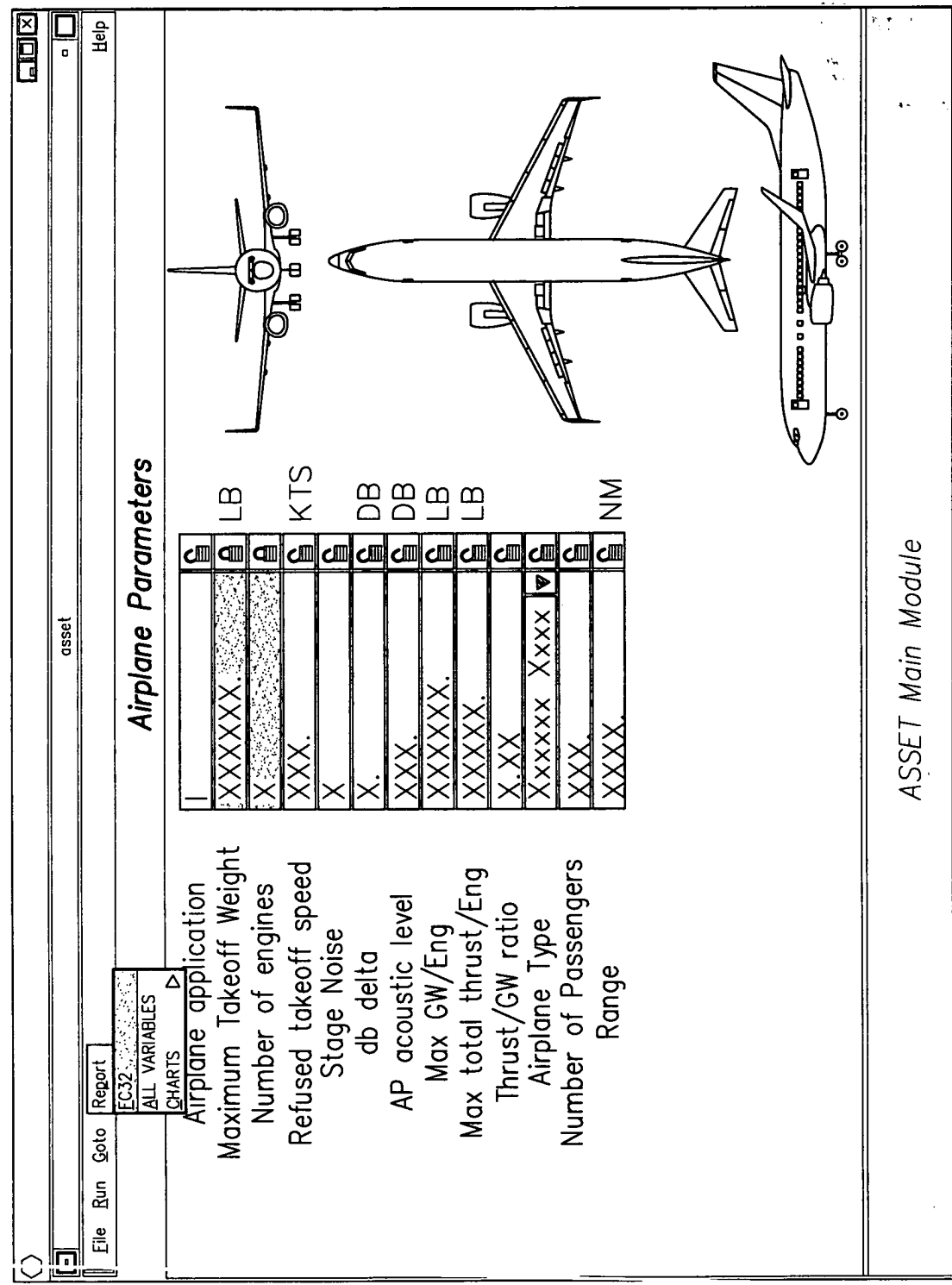


FIG. 72

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File Run Goto Report

asset

Help

Airplane application

Maximum Takeoff Weight

XXXXXX.

LB

Airplane Parameters

ASSET: Report

FC 32 Report

Component #	Component Designation	Qty	Unit	Wt (LB)	Su
32	Electrical Power Generation & Distribution System				
32-01	AC Power System	X		XXX.X	
32-01-01	AC POWER GENERATION EQUIPMENT	X		XXX.X	
32-01-01-01	MAIN AC POWER GENERATORS INSTLD	X		XX.X	
32-01-01-01-01	PRIME DRIVE GENERATOR	X		X.X	
32-01-01-01-02	QUICK ATTACH DETACH (QAD)	X		XX.X	
32-01-01-01-03	GENERATOR FLUIDS	X		X.X	
32-01-01-01-05	HARDWARE INSTALLATION	X		X.X	
32-01-01-01-06	WIRING INSTALLATION	X		X.X	
32-01-01-02	GENERATOR CONTROL UNITS	X		XX.X	
32-01-01-06	BUS POWER CONTROL UNITS	X		XXX.X	
32-01-05	EROPS-VSCF POWER GENERATION SYSTEM	X		XX.X	
32-01-05-01	VSCF GENERATORS & OIL	X		XX.X	
32-01-05-01-01	VSCF GENERATOR	X		XX.X	
32-01-05-01-02	VSCF GENERATOR OIL	X		X.X	

Return

send to printer

save to file

ASSET Main Module

FIG. 73

206010" 22500560

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File Run Goto Report

asset Help

Airplane Parameters

Airplane application: LB

Maximum Takeoff Weight:

ASSET: Report

AC_Stdbby_Load	AC Standby Load	[0][0][0]
AGen_MTBf	APU Generator MTBF	[0][0][0]
APA	Airplane application	[0][0][0]
APUG_Cap	APU Generator Capacity	[0][0][0]
APUG_Cap_As_Built	APU Generator Capacity	[0][0][0]
APUG_Wt	APU Generator Weight	[0][0][0]
APU_Batt_Cap	Nominal Capacity	[0][0][0]
APU_Batt_Chgr_Cap	Output Capacity	[0][0][0]
APU_Batt_Chgr_Wt	Battery Charger Weight	[0][0][0]
APU_Batt_Chgr_Wt_As_Built	Battery Charger Weight	[0][0][0]
APU_Batt_Wt	Battery Weight	[0][0][0]
APU_Batt_Wt_As_Built	Battery Weight	[0][0][0]
APU_Ch_Prob	Probability of Lost of APU Generating Channel	[0][0][0]
APU_Feeder	APU Feeder Configuration	[0][0][0]
APU_Feeder	APU Feeder Configuration	[1][0][0]
APU_Feeder	APU Feeder Configuration	[2][0][0]
APU_Feeder	APU Feeder Configuration	[3][0][0]
APU_Feeder	APU Feeder Configuration	[4][0][0]
APU_GCU_Size	APU Generator GCU Size	[0][0][0]
APU_GCU_Wt	Unit Weight	[0][0][0]

[Return] [send to printer] [save to file]

95 ASSET Main Module

FIG. 74

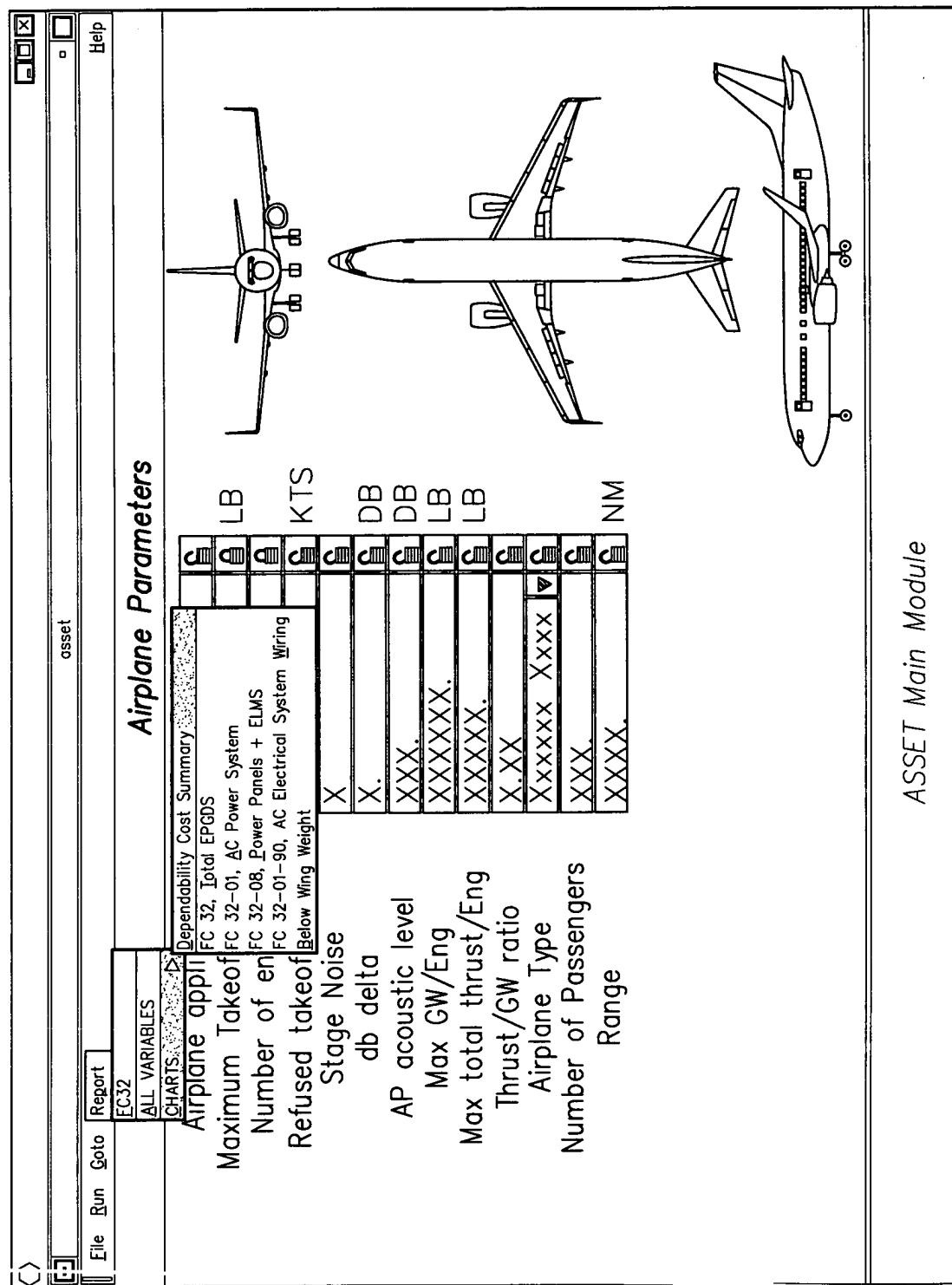


FIG. 75

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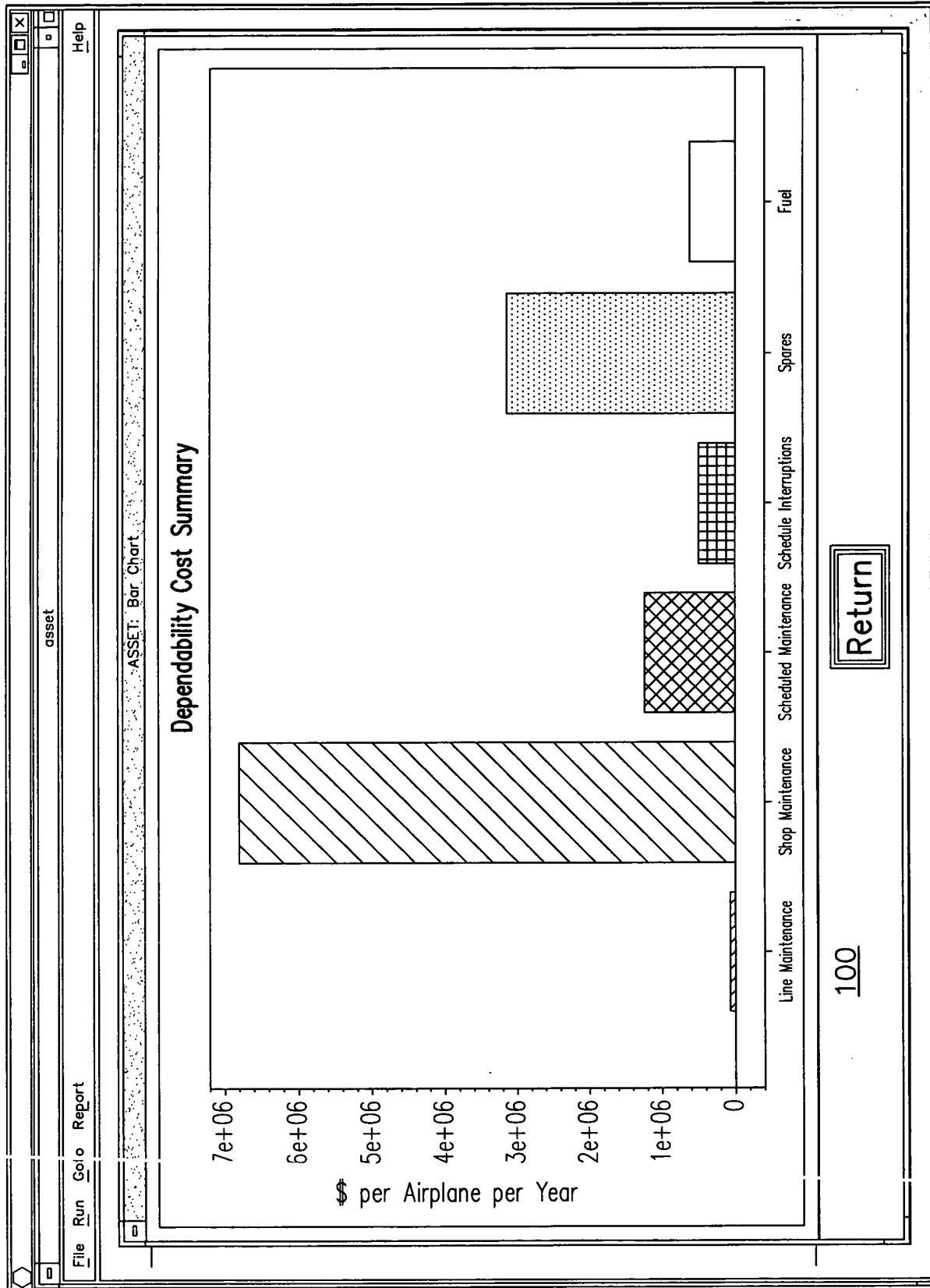


FIG. 76

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206010" 22500660

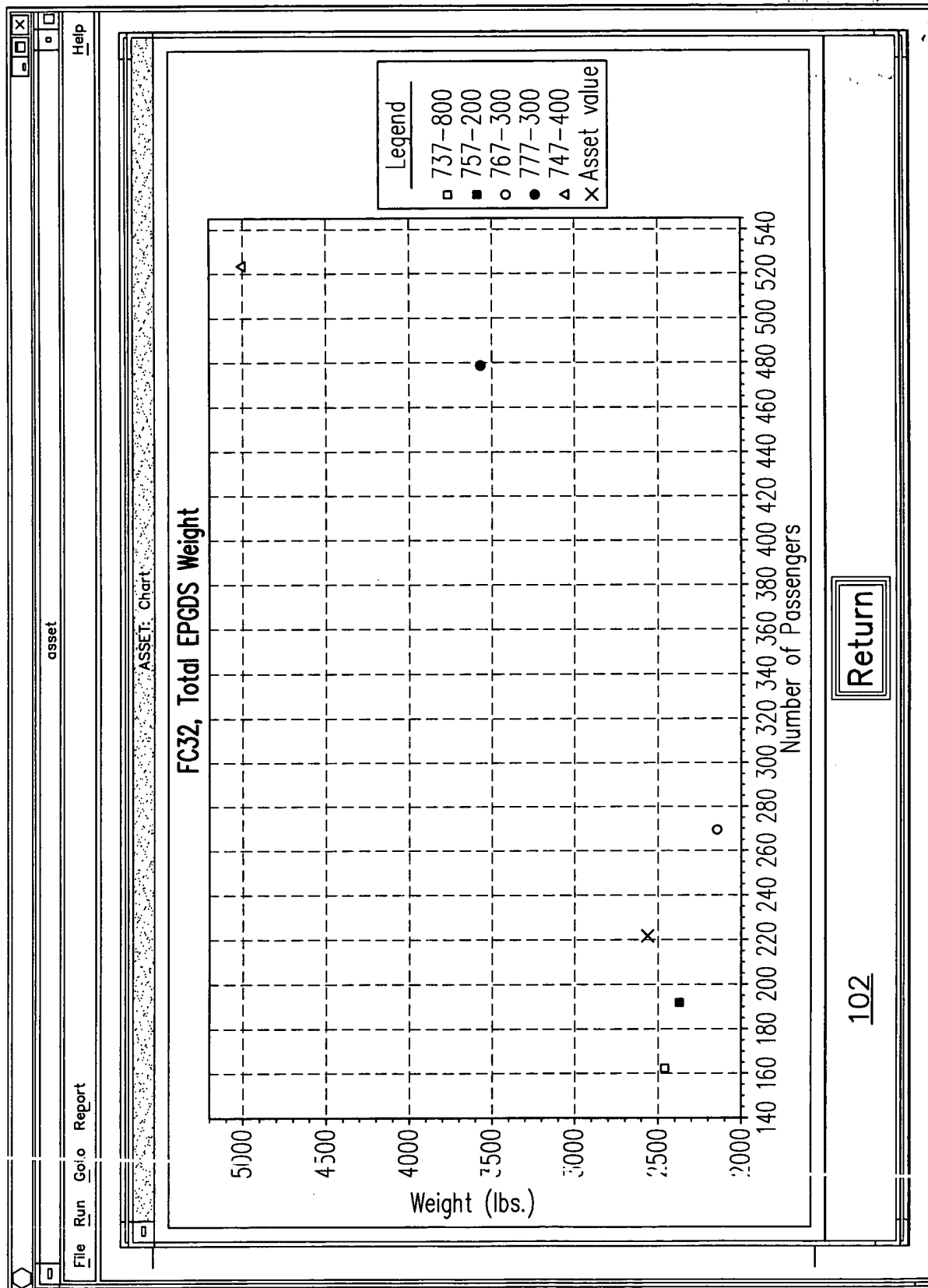


FIG. 77

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206010" 22500660

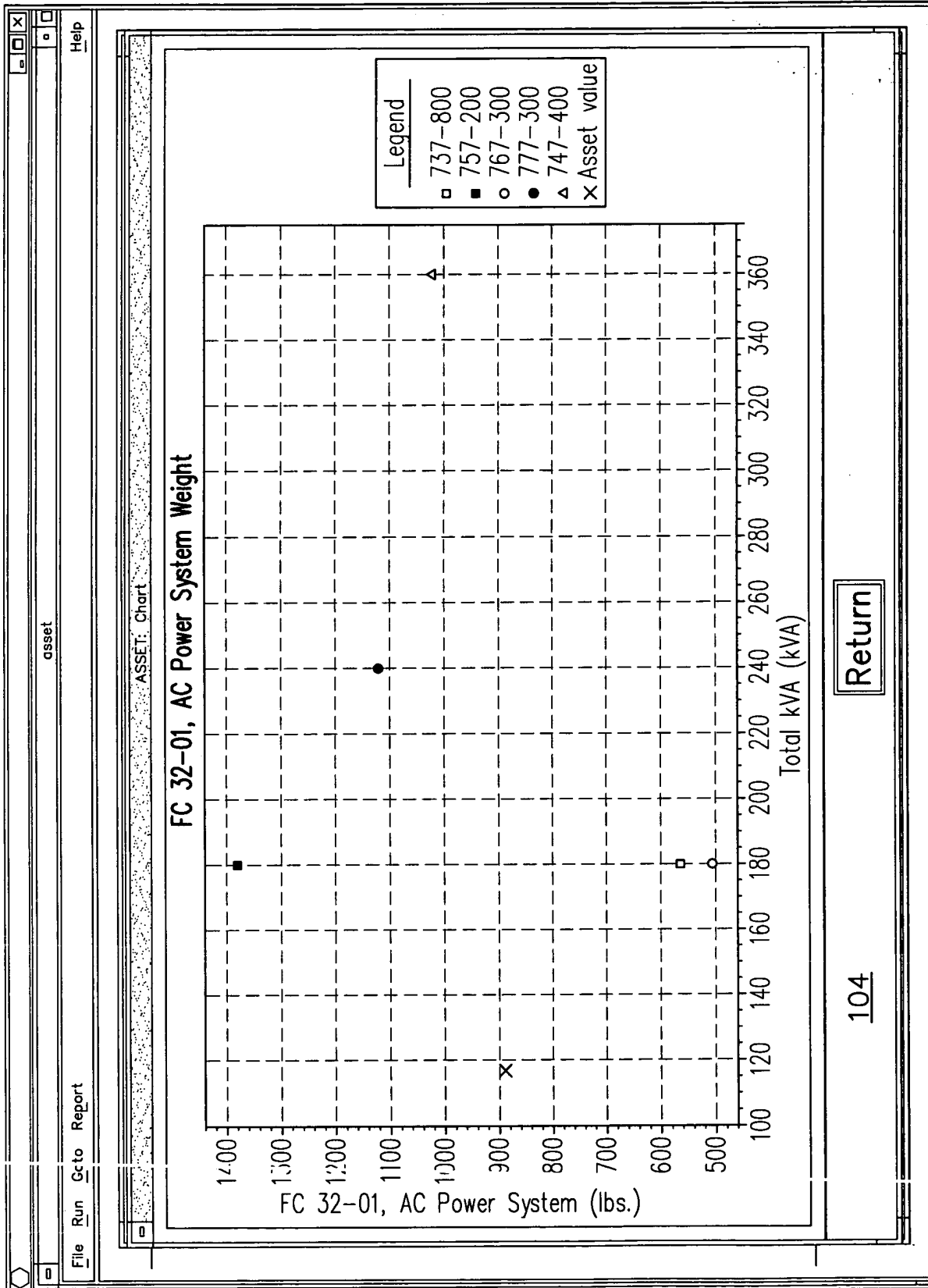


FIG. 78

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206010-22500660

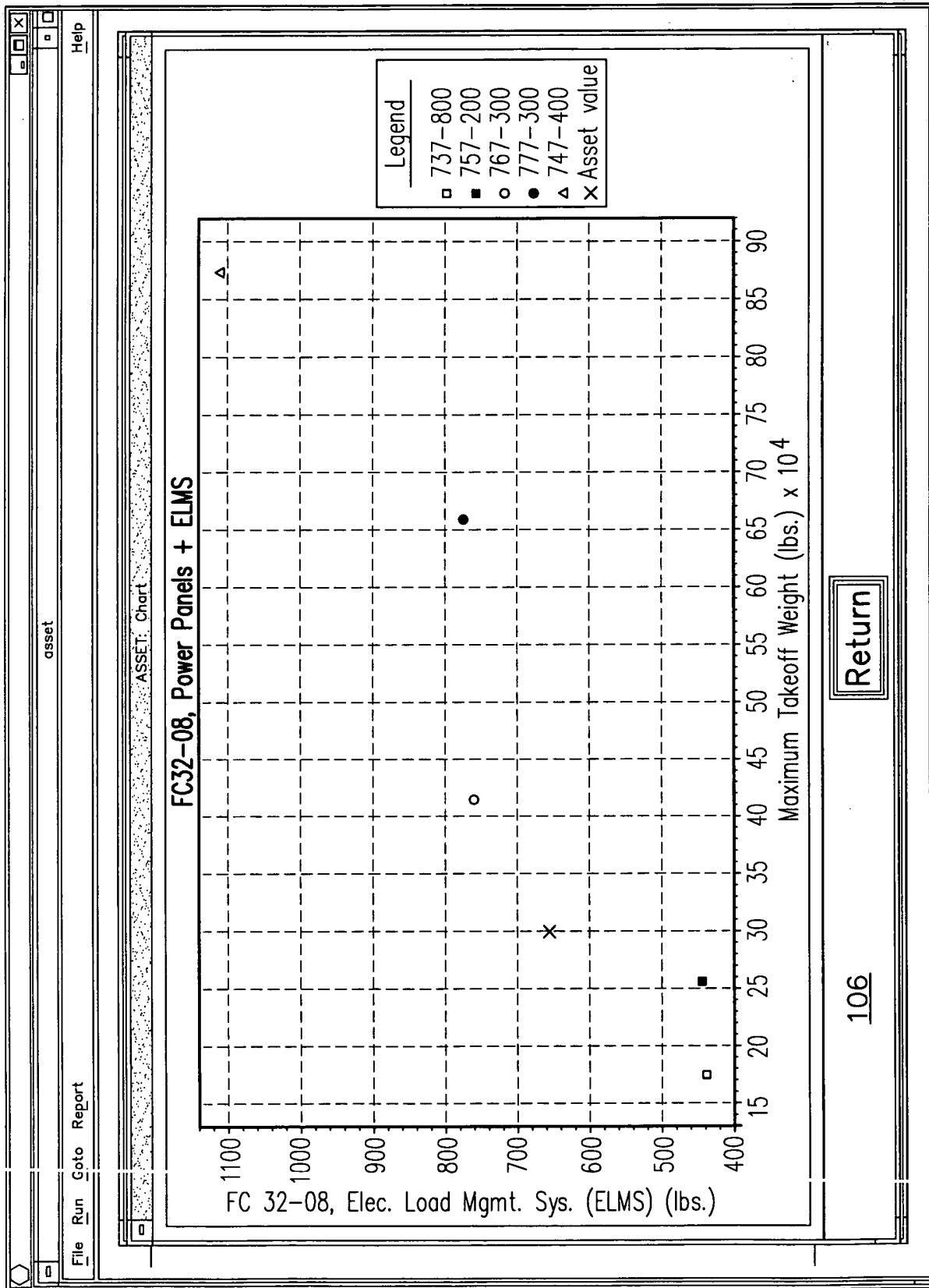


FIG. 79

206010 22500650

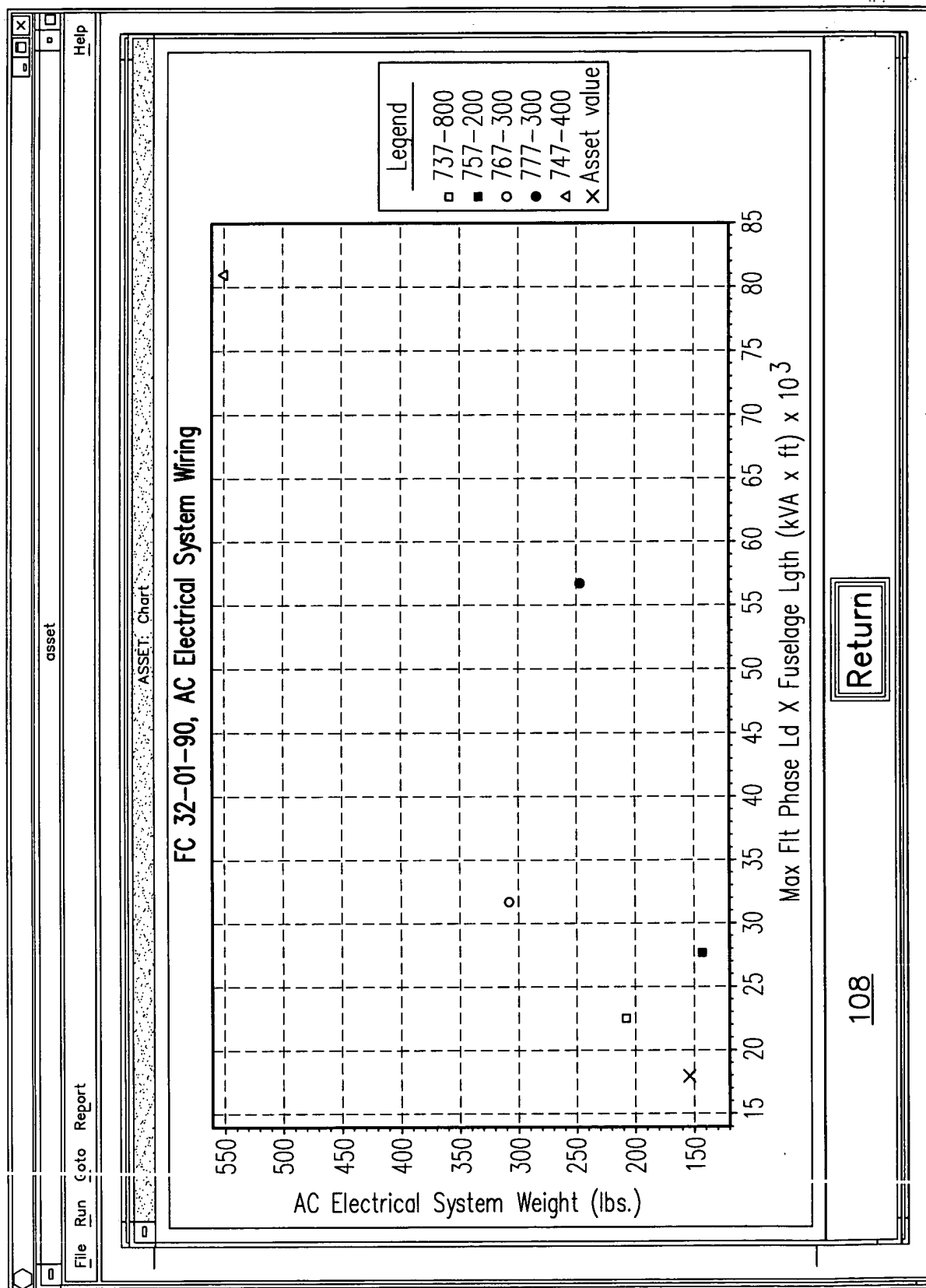


FIG. 80

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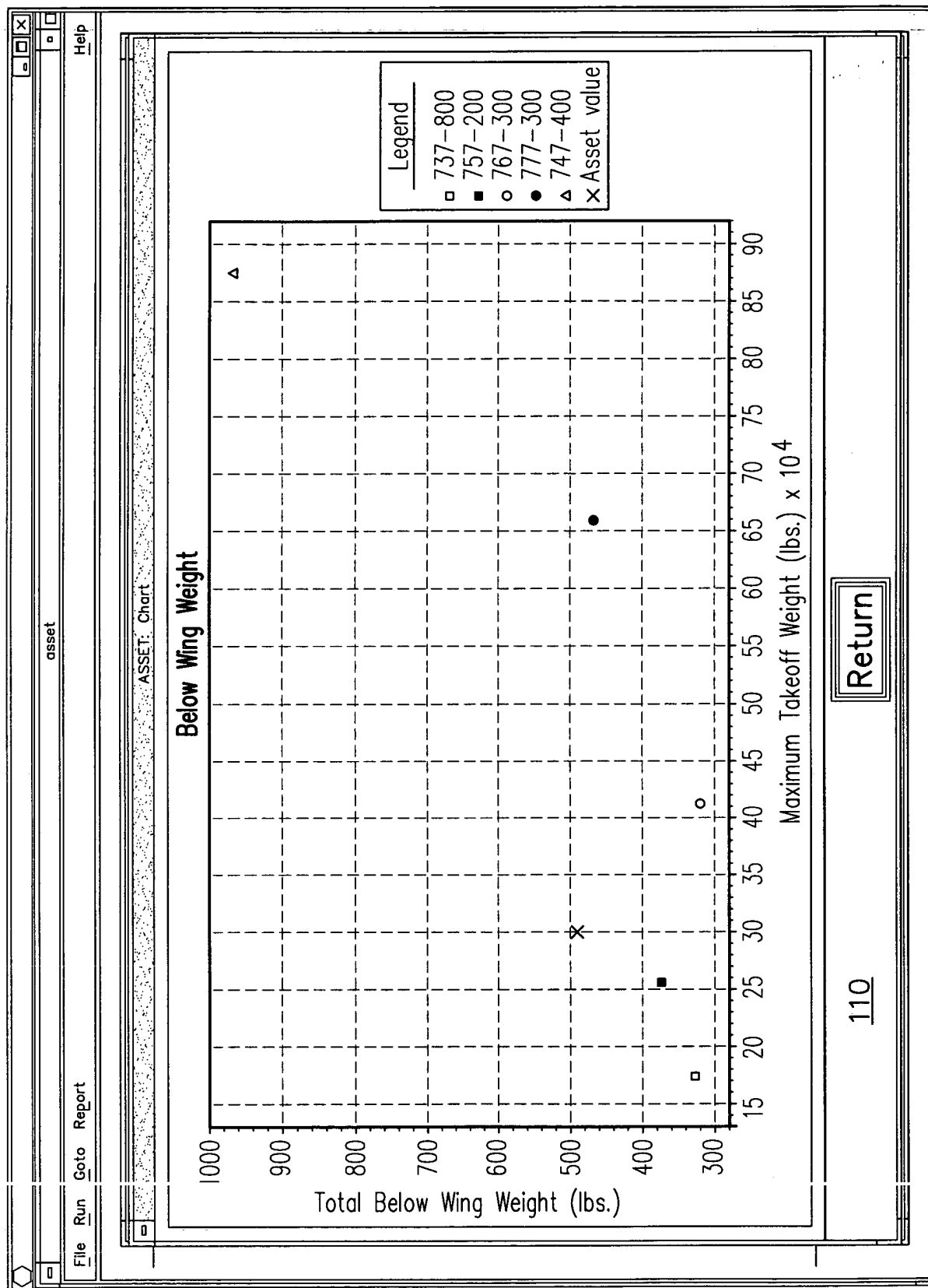


FIG. 81